

? E AU=BERTHET, FRANCOIS-XAVIER

Ref	Items	Index-term
E1	5	AU=BERTHET, FRANCOIS-XAVIER
E2	16	*AU=BERTHET, FRANCOIS-XAVIER
E3	7	AU=BERTHET, FRANCOIS-XAVIER JACQUES
E4	2	AU=BERTHET, FRANCOISE
E5	5	AU=BERTHET, FRANCOIS-XAVIER
E6	2	AU=BERTHET, FREDERIC
E7	2	AU=BERTHET, FX
E8	3	AU=BERTHET, G
E9	154	AU=BERTHET, G
E10	1	AU=BERTHET, G ET AL.
E11	2	AU=BERTHET, G G
E12	2	AU=BERTHET, G G

Enter P or PAGE for more

? S E1-E12

5	AU=BERTHET, FRANCOIS-XAVIER
16	AU=BERTHET, FRANCOIS-XAVIER
7	AU=BERTHET, FRANCOIS-XAVIER JACQUES
2	AU=BERTHET, FRANCOISE
5	AU=BERTHET, FRANCOIS-XAVIER
2	AU=BERTHET, FREDERIC
2	AU=BERTHET, FX
3	AU=BERTHET, G
154	AU=BERTHET, G
1	AU=BERTHET, G ET AL.
2	AU=BERTHET, G G
2	AU=BERTHET, G G

S24 201 E1-E12

? S S24 AND ( TRANSFERRIN OR HSF OR NEISSERIA )

201	S24
205291	TRANSFERRIN
11528	HSF
158727	NEISSERIA

S25 6 S24 AND ( TRANSFERRIN OR HSF OR NEISSERIA )

? RD

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S26 5 RD (unique items)

? T S26/3, K/1-5

>>>KW C option is not available in file(s): 399

26/3, K/1 (Item 1 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

140198065 CA: 140(13)198065a PATENT

Vaccine compositions comprising Neisserial adhesin, autotransporter, toxin, iron acquisition protein and membrane-associated protein against Neisserial infection

INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Biemans, Ralph; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Poolman, Jan; Weynants, Vincent

LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S.A.

PATENT: PCT International ; WO 200414418 A2 DATE: 20040219

APPLICATION: WO 2003EP8571 (20030731) \*GB 200218037 (20020802) \*GB

200218036 (20020802) \*GB 200218035 (20020802) \*GB 200218051 (20020802) \*GB  
 200220197 (20020830) \*GB 200220199 (20020830) \*GB 200225524 (20021101) \*GB  
 200225531 (20021101) \*GB 200230164 (20021224) \*GB 200230168 (20021224) \*GB  
 200230170 (20021224) \*GB 20035028 (20030305)

PAGES: 113 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-039/02A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;  
 CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;  
 GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;  
 LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;  
 SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN;  
 YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE  
 ; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK;  
 EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF;  
 BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

26/3, K/2 (Item 2 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

140180125 CA: 140(12)180125k PATENT

Vaccine composition comprising transferrin binding protein and Hsf  
 against *Neisseria meningitidis*, *Neisseria gonorrhoeae*, *Moraxella*  
*catarrhalis* and *Haemophilus influenzae*

INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Biemans, Ralph;  
 Denoel, Philippe; Feron, Christiane; Goraj, Carine; Poolman, Jan; Weynants,  
 Vincent

LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S.A.

PATENT: PCT International ; WO 200414419 A1 DATE: 20040219

APPLICATION: WO 2003EP8567 (20030731) \*GB 200218037 (20020802) \*GB

200218036 (20020802) \*GB 200218035 (20020802) \*GB 200218051 (20020802) \*GB  
 200220197 (20020830) \*GB 200220199 (20020830) \*GB 200225524 (20021101) \*GB  
 200225531 (20021101) \*GB 200230164 (20021224) \*GB 200230168 (20021224) \*GB  
 200230170 (20021224) \*GB 20035028 (20030305)

PAGES: 64 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-039/095A; A61K-039/102B; A61K-039/00B

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;  
 CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;  
 GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;  
 LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;  
 SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN;  
 YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE  
 ; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK;  
 EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF;  
 BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

26/3, K/3 (Item 3 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

137184449 CA: 137(13)184449e PATENT

Vaccine composition

INVENTOR(AUTHOR): Berthet, Francois-Xavier Jacques; Lobet, Yves; Poolman,  
 Jan; Verlant, Vincent Georges Christian Louis

LOCATION: Belg.

ASSIGNEE: Smithkline Beecham Biologicals S.A.

PATENT: PCT International ; WO 200262380 A2 DATE: 20020815

APPLICATION: WO 2002EP1356 (20020208) \*GB 20013169 (20010208)

PAGES: 75 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATION:

CLASS: A61K-039/116A; A61P-031/04B

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; OM; PH; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

26/3, K/4 (Item 4 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

137184447 CA: 137(13)184447c PATENT

Vaccine composition comprising hyperblebbing Gram-neg. bacteria which have down-regulated toll genes and mutated peptidoglycan-binding proteins

INVENTOR(AUTHOR): Berthet, Francois-Xavier Jacques; Denoel, Philippe; Neyt, Cecile Anne; Poolman, Jan; Thonnard, Joelle

LOCATION: Belg.

ASSIGNEE: Smithkline Beecham Biologicals S.A.

PATENT: PCT International ; WO 200262378 A2 DATE: 20020815

APPLICATION: WO 2002EP1361 (20020208) \*GB 20013171 (20010208)

PAGES: 71 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATION:

CLASS: A61K-039/00A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; OM; PH; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

26/3, K/5 (Item 5 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

134146387 CA: 134(11)146387p PATENT

Immuno-protective and non-toxic Gram-neg. bleb vaccine suitable for pediatric use

INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Dalemans, Wilfried L. J.; Denoel, Philippe; Dequesne, Guy; Feron, Christiane; Lobet, Yves; Poolman, Jan; Thiry, Georges; Thonnard, Joelle; Voet, Pierre

LOCATION: Belg.

ASSIGNEE: Smithkline Beecham Biologicals S.A.

PATENT: PCT International ; WO 200109350 A2 DATE: 20010208

APPLICATION: WO 2000EP7424 (20000731) \*GB 9918319 (19990803)

PAGES: 128 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATION:

CLASS: C12N-015/74A; A61K-039/02B; C12N-015/31B; C12N-015/67B;

A61K-039/095B; A61K-039/116B; A61K-039/118B; A61K-039/09B; A61K-039/104B;

A61K-039/102B; A61K-039/295B; C07K-014/195B; C12N-001/21B

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CR; CU; CZ; DE; DK; DM; DZ; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA;

MD; MG; MK; MN; MW; MX; MZ; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL;  
 TJ; TM; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD;  
 RU; TJ; TM; DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG;  
 ; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT;  
 SE; BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG  
 ? E AU=BI EMANS, RALPH

Ref	Items	Index-term
E1	28	AU=BI EMANS, R.
E2	24	*AU=BI EMANS, RALPH
E3	21	AU=BI EMANS, RALPH LEON
E4	2	AU=BI EMANS, ROGER
E5	2	AU=BI EMANS, T.
E6	1	AU=BI EMANS, TOINE
E7	1	AU=BI EMANS, TOINE H.
E8	4	AU=BI EMANS, W
E9	105	AU=BI EMANS, W G
E10	2	AU=BI EMANS, W G
E11	2	AU=BI EMANS, W M
E12	1	AU=BI EMANS, W M G

Enter P or PAGE for more

? S E1-E12 AND (HSF OR TRANSFERRIN)  
 28 AU=BI EMANS, R.  
 24 AU=BI EMANS, RALPH  
 21 AU=BI EMANS, RALPH LEON  
 2 AU=BI EMANS, ROGER  
 2 AU=BI EMANS, T.  
 1 AU=BI EMANS, TOINE  
 1 AU=BI EMANS, TOINE H.  
 4 AU=BI EMANS, W  
 105 AU=BI EMANS, W G  
 2 AU=BI EMANS, W G  
 2 AU=BI EMANS, W M  
 1 AU=BI EMANS, W M G  
 11528 HSF  
 205291 TRANSFERRIN  
 S27 4 E1-E12 AND (HSF OR TRANSFERRIN)  
 ? RD

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S28 4 RD (unique items)

? T S28/3, K/1-4

>>>KW C option is not available in file(s): 399

28/3, K/1 (Item 1 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

140249770 CA: 140(16)249770m PATENT

Refolding of recombinantly produced NspA protein from Neisseria using the detergent SB-12 in an alkaline refolding buffer and use of NspA in the treatment, prevention and diagnosis of Neisserial infections

INVENTOR(AUTHOR): Biemans, Ralph; Bos, Martine; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Poolman, Jan; Tommassen, Jan; Veynants, Vincent  
 LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S. A.; Utrecht University

PATENT: PCT International ; WO 200420452 A2 DATE: 20040311

APPLICATION: WO 2003EP10085 (20030828) \*GB 200220197 (20020830)

PAGES: 62 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: C07K-000/A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

28/3, K/2 (Item 2 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

140198065 CA: 140(13)198065a PATENT

Vaccine compositions comprising Neisserial adhesin, autotransporter, toxin, iron acquisition protein and membrane-associated protein against Neisserial infection

INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Biemans, Ralph; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Poolman, Jan; Weynants, Vincent

LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S.A.

PATENT: PCT International ; WO 200414418 A2 DATE: 20040219

APPLICATION: WO 2003EP8571 (20030731) \*GB 200218037 (20020802) \*GB 200218036 (20020802) \*GB 200218035 (20020802) \*GB 200218051 (20020802) \*GB 200220197 (20020830) \*GB 200220199 (20020830) \*GB 200225524 (20021101) \*GB 200225531 (20021101) \*GB 200230164 (20021224) \*GB 200230168 (20021224) \*GB 200230170 (20021224) \*GB 20035028 (20030305)

PAGES: 113 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-039/02A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

28/3, K/3 (Item 3 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

140180125 CA: 140(12)180125k PATENT

Vaccine composition comprising transferrin binding protein and Hsf against Neisseria meningitidis, Neisseria gonorrhoeae, Moraxella catarrhalis and Haemophilus influenzae

INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Biemans, Ralph; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Poolman, Jan; Weynants, Vincent

LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S.A.

PATENT: PCT International ; WO 200414419 A1 DATE: 20040219

APPLICATION: WO 2003EP8567 (20030731) \*GB 200218037 (20020802) \*GB 200218036 (20020802) \*GB 200218035 (20020802) \*GB 200218051 (20020802) \*GB

10523114HSFTBP.txt

200220197 (20020830) \*GB 200220199 (20020830) \*GB 200225524 (20021101) \*GB  
200225531 (20021101) \*GB 200230164 (20021224) \*GB 200230168 (20021224) \*GB  
200230170 (20021224) \*GB 20035028 (20030305)

PAGES: 64 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-039/095A; A61K-039/102B; A61K-039/00B

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;  
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;  
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;  
LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;  
SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN;  
YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE  
; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK;  
EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF;  
BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

28/3, K/4 (Item 4 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

140180124 CA: 140(12)180124j PATENT

Engineered meningococcal strains comprising LOS subunit or outer membrane  
vesicle with downregulated or deleted PorA, QpA and/or QpC for use as  
neisserial vaccines

INVENTOR(AUTHOR): Biemans, Ralph; Denoel, Philippe; Feron, Christiane;  
Goraj, Karine; Poolman, Jan; Veynants, Vincent

LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals SA

PATENT: PCT International ; WO 200414417 A2 DATE: 20040219

APPLICATION: WO 2003EP8568 (20030731) \*GB 200218037 (20020802) \*GB  
200218036 (20020802) \*GB 200218035 (20020802) \*GB 200218051 (20020802) \*GB  
200220197 (20020830) \*GB 200220199 (20020830) \*GB 200225524 (20021101) \*GB  
200225531 (20021101) \*GB 200230164 (20021224) \*GB 200230168 (20021224) \*GB  
200230170 (20021224) \*GB 20035028 (20030305)

PAGES: 51 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-039/00A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;  
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;  
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;  
LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;  
SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN;  
YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE  
; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK;  
EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF;  
BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

? E AU=DENOEL, PHILIPPE

Ref	Items	Index-term
E1	21	AU=DENOEL, PA
E2	2	AU=DENOEL, PH
E3	32	*AU=DENOEL, PHILIPPE
E4	6	AU=DENOEL, PHILIPPE A
E5	11	AU=DENOEL, PHILIPPE A.
E6	6	AU=DENOEL, S.
E7	1	AU=DENOEL, V
E8	19	AU=DENOEL, V.
E9	6	AU=DENOEL, VINCENT
E10	14	AU=DENOEL, X.
E11	1	AU=DENOEL D
E12	3	AU=DENOEL, CLAUDE

Enter P or PAGE for more

? S E1-E12

21 AU=DENOEL, PA  
 2 AU=DENOEL, PH  
 32 AU=DENOEL, PHI LI PPE  
 6 AU=DENOEL, PHI LI PPE A  
 11 AU=DENOEL, PHI LI PPE A.  
 6 AU=DENOEL, S.  
 1 AU=DENOEL, V  
 19 AU=DENOEL, V.  
 6 AU=DENOEL, VI NCENT  
 14 AU=DENOEL, X.  
 1 AU=DENOER D  
 3 AU=DENOES, CLAUDE

S29 117 E1-E12

? S S29 AND (HSF OR TRANSFERRI N)

117 S29  
 11528 HSF  
 205291 TRANSFERRI N

S30 7 S29 AND (HSF OR TRANSFERRI N)

? RD

&gt;&gt;&gt;Duplicate detection is not supported for File 393.

&gt;&gt;&gt;Duplicate detection is not supported for File 391.

&gt;&gt;&gt;Records from unsupported files will be retained in the RD set.

S31 7 RD (unique items)

? T S31/3, K/1-7

&gt;&gt;&gt;KW C option is not available in file(s): 399

31/3, K/1 (Item 1 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

147484764 CA: 147(23)484764r JOURNAL

Additive and synergistic bactericidal activity of antibodies directed against minor outer membrane proteins of *Neisseria meningitidis*

AUTHOR(S): Weynants, Vincent E.; Feron, Christiane M.; Goraj, Karine K.; Bos, Martine P.; Denoel, Philippe A.; Verlant, Vincent G.; Tommassen, Jan; Peak, Ian R. A.; Judd, Ralph C.; Jennings, Michael P.; Poolman, Jan T.

LOCATION: GlaxoSmithKline Biologicals, B-1330, Rixensart, Belg.

JOURNAL: Infect. Immun. (Infection and Immunity) DATE: 2007 VOLUME: 75

NUMBER: 11 PAGES: 5434-5442 CODEN: INFI BR ISSN: 0019-9567 LANGUAGE:

English PUBLISHER: American Society for Microbiology

31/3, K/2 (Item 2 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

140249770 CA: 140(16)249770m PATENT

Refolding of recombinantly produced NspA protein from *Neisseria* using the detergent SB-12 in an alkaline refolding buffer and use of NspA in the treatment, prevention and diagnosis of *Neisseria* infections

INVENTOR(AUTHOR): Biemans, Ralph; Bos, Martine; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Poolman, Jan; Tommassen, Jan; Weynants, Vincent

LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S. A.; Utrecht University

PATENT: PCT International ; WO 200420452 A2 DATE: 20040311

APPLICATION: WO 2003EP10085 (20030828) \*GB 200220197 (20020830)

PAGES: 62 pp. CODEN: PIXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: C07K-000/A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

31/3, K/3 (Item 3 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

140198065 CA: 140(13)198065a PATENT

Vaccine compositions comprising Neisserial adhesin, autotransporter, toxin, iron acquisition protein and membrane-associated protein against Neisserial infection

INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Biemans, Ralph; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Poolman, Jan; Weynants, Vincent

LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S.A.

PATENT: PCT International ; WO 200414418 A2 DATE: 20040219

APPLICATION: WO 2003EP8571 (20030731) \*GB 200218037 (20020802) \*GB 200218036 (20020802) \*GB 200218035 (20020802) \*GB 200218051 (20020802) \*GB 200220197 (20020830) \*GB 200220199 (20020830) \*GB 200225524 (20021101) \*GB 200225531 (20021101) \*GB 200230164 (20021224) \*GB 200230168 (20021224) \*GB 200230170 (20021224) \*GB 20035028 (20030305)

PAGES: 113 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-039/02A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

31/3, K/4 (Item 4 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

140180125 CA: 140(12)180125k PATENT

Vaccine composition comprising transferrin binding protein and Hsf against Neisseria meningitidis, Neisseria gonorrhoeae, Moraxella catarrhalis and Haemophilus influenzae

INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Biemans, Ralph; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Poolman, Jan; Weynants, Vincent

LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S.A.

PATENT: PCT International ; WO 200414419 A1 DATE: 20040219

APPLICATION: WO 2003EP8567 (20030731) \*GB 200218037 (20020802) \*GB 200218036 (20020802) \*GB 200218035 (20020802) \*GB 200218051 (20020802) \*GB 200220197 (20020830) \*GB 200220199 (20020830) \*GB 200225524 (20021101) \*GB 200225531 (20021101) \*GB 200230164 (20021224) \*GB 200230168 (20021224) \*GB



200230170 (20021224) \*GB 20035028 (20030305)

PAGES: 64 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-039/095A; A61K-039/102B; A61K-039/00B

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

31/3, K/5 (Item 5 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

140180124 CA: 140(12)180124j PATENT

Engineered meningococcal strains comprising LOS subunit or outer membrane vesicle with downregulated or deleted PorA, QpA and/or QpC for use as neisserial vaccines

INVENTOR(AUTHOR): Biemans, Ralph; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Poolman, Jan; Weynants, Vincent

LOCATION: Belg.

ASSIGNEE: GlaxoSmithKline Biologicals SA

PATENT: PCT International ; WO 200414417 A2 DATE: 20040219

APPLICATION: WO 2003EP8568 (20030731) \*GB 200218037 (20020802) \*GB

200218036 (20020802) \*GB 200218035 (20020802) \*GB 200218051 (20020802) \*GB

200220197 (20020830) \*GB 200220199 (20020830) \*GB 200225524 (20021101) \*GB

200225531 (20021101) \*GB 200230164 (20021224) \*GB 200230168 (20021224) \*GB

200230170 (20021224) \*GB 20035028 (20030305)

PAGES: 51 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-039/00A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

31/3, K/6 (Item 6 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

136166052 CA: 136(11)166052v PATENT

Vaccine composition

INVENTOR(AUTHOR): Berthet, Francois-Xavier Jacques; Dalemans, Wilfried; Denoel, Philippe; Dequesne, Guy; Feron, Christiane; Garcon, Nathalie; Lobet, Yves; Poolman, Jan; Thiry, Georges; Thonnard, Joelle; Voet, Pierre

LOCATION: Belg.

ASSIGNEE: SmithKline Beecham Biologicals S.A.

PATENT: PCT International ; WO 200209746 A2 DATE: 20020207

APPLICATION: WO 2001EP8857 (20010731) \*EP 2000956369 (20000731) \*GB

20013170 (20010208)

PAGES: 125 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-039/00A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;  
 CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;  
 GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;  
 LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI;  
 SK; SL; TJ; TM; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG;  
 KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ;  
 ; TZ; UG; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC;  
 NL; PT; SE; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD;  
 TG

31/3, K/7 (Item 7 from file: 399)  
 DIALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rights reserved.

134146387 CA: 134(11)146387p PATENT

Immuno-protective and non-toxic Gram-neg. bleb vaccine suitable for pediatric use

INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Dalemans, Wilfried L.  
 J.; Denoel, Philippe; Dequesne, Guy; Feron, Christiane; Lobet, Yves;  
 Poolman, Jan; Thiry, Georges; Thonnard, Joelle; Voet, Pierre

LOCATION: Belg.

ASSIGNEE: Smithkline Beecham Biologicals S.A.

PATENT: PCT International ; WO 200109350 A2 DATE: 20010208

APPLICATION: WO 2000EP7424 (20000731) \*GB 9918319 (19990803)

PAGES: 128 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: C12N-015/74A; A61K-039/02B; C12N-015/31B; C12N-015/67B;  
 A61K-039/095B; A61K-039/116B; A61K-039/118B; A61K-039/09B; A61K-039/104B;  
 A61K-039/102B; A61K-039/295B; C07K-014/195B; C12N-001/21B

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;  
 CA; CH; CN; CR; CU; CZ; DE; DK; DM; DZ; EE; ES; FI; GB; GD; GE; GH; GM; HR;  
 HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA;  
 MD; MG; MK; MN; MW; MX; MZ; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL;  
 TJ; TM; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD;  
 RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG;  
 ; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT;  
 SE; BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG  
 ? E AU=FERON, CHRISTIANE

Ref	Items	Index-term
E1	1	AU=FERON, C*
E2	6	AU=FERON, CHLOE
E3	20	*AU=FERON, CHRISTIANE
E4	2	AU=FERON, CHRISTIANE M
E5	1	AU=FERON, CHRISTIANE M
E6	15	AU=FERON, CHRISTOPHE
E7	65	AU=FERON, D
E8	408	AU=FERON, D.
E9	1	AU=FERON, D. (CEA CENTRE DE LA HAGUE, 50 - CHERBO
E10	2	AU=FERON, D. HRSG
E11	57	AU=FERON, DAMEN
E12	1	AU=FERON, DAMEN (ED.)

Enter P or PAGE for more  
 ? S E1-E12 AND (HSF OR TRANSFERRIN)

1 AU=FERON, C\*  
 6 AU=FERON, CHLOE  
 20 AU=FERON, CHRISTIANE  
 2 AU=FERON, CHRISTIANE M  
 1 AU=FERON, CHRISTIANE M  
 15 AU=FERON, CHRISTOPHE

65 AU=FERON, D  
 408 AU=FERON, D.  
 1 AU=FERON, D. (CEA CENTRE DE LA HAGUE, 50 - CHERBO  
 2 AU=FERON, D. HRSG  
 57 AU=FERON, DAM EN  
 1 AU=FERON, DAM EN (ED.)  
 11528 HSF  
 205291 TRANSFERRI N  
 S32 9 E1-E12 AND (HSF OR TRANSFERRI N)  
 ? RD

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S33 8 RD (unique items)

? T S33/3, K/1-8

>>>KW/C option is not available in file(s): 399

33/3, K/1 (Item 1 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

148099084 CA: 148(5)99084q PATENT  
 Lipooligosaccharide meningococcal vaccines  
 INVENTOR(AUTHOR): Devos, Nathalie; Feron, Christiane; Poolman, Jan;  
 Weynants, Vincent  
 LOCATION: Belg.  
 ASSIGNEE: GlaxoSmithKline Biologicals SA  
 PATENT: PCT International ; WO 2007144316 A2 DATE: 20071221  
 APPLICATION: WO 2007EP55676 (20070608) \*US 2006PV804475 (20060612) \*US  
 2006PV804489 (20060612)  
 PAGES: 83pp. CODEN: PIXXD2 LANGUAGE: English  
 PATENT CLASSIFICATIONS:

CLASS: A61K-000/A  
 DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BH; BR; BW;  
 BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES; FI;  
 GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP;  
 KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; MG; MK; MN; MW; MX; MY; MZ;  
 NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL;  
 SM; SV; SY; TJ; TM; TN; TR; TT; TZ; UA DESIGNATED REGIONAL: AT; BE; BG; CH;  
 CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC;  
 MT; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;  
 ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG;  
 ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

33/3, K/2 (Item 2 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

147484764 CA: 147(23)484764r JOURNAL  
 Additive and synergistic bactericidal activity of antibodies directed  
 against minor outer membrane proteins of Neisseria meningitidis  
 AUTHOR(S): Weynants, Vincent E.; Feron, Christiane M.; Goraj, Karine K.;  
 Bos, Martine P.; Denoel, Philippe A.; Verlant, Vincent G.; Tomassen, Jan;  
 Peak, Ian R. A.; Judd, Ralph C.; Jennings, Michael P.; Poolman, Jan T.  
 LOCATION: GlaxoSmithKline Biologicals, B-1330, Rixensart, Belg.  
 JOURNAL: Infect. Immun. (Infection and Immunity) DATE: 2007 VOLUME: 75  
 NUMBER: 11 PAGES: 5434-5442 CODEN: INFI BR ISSN: 0019-9567 LANGUAGE:  
 English PUBLISHER: American Society for Microbiology

33/3, K/3 (Item 3 from file: 399)  
 DI ALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rts. reserv.

140249770 CA: 140(16)249770m PATENT  
 Refolding of recombinantly produced NspA protein from Neisseria using the detergent SB-12 in an alkaline refolding buffer and use of NspA in the treatment, prevention and diagnosis of Neisserial infections  
 INVENTOR(AUTHOR): Biemans, Ralph; Bos, Martine; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Poolman, Jan; Tomassen, Jan; Weynants, Vincent  
 LOCATION: Belg.  
 ASSIGNEE: Glaxosmithkline Biologicals S. A.; Utrecht University  
 PATENT: PCT International ; WO 200420452 A2 DATE: 20040311  
 APPLICATI ON: WO 2003EP10085 (20030828) \*GB 200220197 (20020830)  
 PAGES: 62 pp. CODEN: PIXXD2 LANGUAGE: English  
 PATENT CLASSIFI CATIONS:  
 CLASS: C07K-000/A  
 DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

33/3, K/4 (Item 4 from file: 399)  
 DI ALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rts. reserv.

140198065 CA: 140(13)198065a PATENT  
 Vaccine compositions comprising Neisserial adhesin, autotransporter, toxin, iron acquisition protein and membrane-associated protein against Neisserial infection  
 INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Biemans, Ralph; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Poolman, Jan; Weynants, Vincent  
 LOCATION: Belg.  
 ASSIGNEE: Glaxosmithkline Biologicals S. A.  
 PATENT: PCT International ; WO 200414418 A2 DATE: 20040219  
 APPLICATI ON: WO 2003EP8571 (20030731) \*GB 200218037 (20020802) \*GB 200218036 (20020802) \*GB 200218035 (20020802) \*GB 200218051 (20020802) \*GB 200220197 (20020830) \*GB 200220199 (20020830) \*GB 200225524 (20021101) \*GB 200225531 (20021101) \*GB 200230164 (20021224) \*GB 200230168 (20021224) \*GB 200230170 (20021224) \*GB 20035028 (20030305)  
 PAGES: 113 pp. CODEN: PIXXD2 LANGUAGE: English  
 PATENT CLASSIFI CATIONS:  
 CLASS: A61K-039/02A  
 DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

33/3, K/5 (Item 5 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

140180125 CA: 140(12)180125k PATENT

Vaccine composition comprising transferrin binding protein and Hsf against *Neisseria meningitidis*, *Neisseria gonorrhoeae*, *Moraxella catarrhalis* and *Haemophilus influenzae*

INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Biemans, Ralph; Denoel, Philippe; Feron, Christiane; Goraj, Carine; Poolman, Jan; Veynants, Vincent

LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S.A.

PATENT: PCT International ; WO 200414419 A1 DATE: 20040219

APPLICATION: WO 2003EP8567 (20030731) \*GB 200218037 (20020802) \*GB 200218036 (20020802) \*GB 200218035 (20020802) \*GB 200218051 (20020802) \*GB 200220197 (20020830) \*GB 200220199 (20020830) \*GB 200225524 (20021101) \*GB 200225531 (20021101) \*GB 200230164 (20021224) \*GB 200230168 (20021224) \*GB 200230170 (20021224) \*GB 20035028 (20030305)

PAGES: 64 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-039/095A; A61K-039/102B; A61K-039/00B

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

33/3, K/6 (Item 6 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

140180124 CA: 140(12)180124j PATENT

Engineered meningococcal strains comprising LOS subunit or outer membrane vesicle with downregulated or deleted PorA, QpA and/or QpC for use as neisserial vaccines

INVENTOR(AUTHOR): Biemans, Ralph; Denoel, Philippe; Feron, Christiane; Goraj, Carine; Poolman, Jan; Veynants, Vincent

LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals SA

PATENT: PCT International ; WO 200414417 A2 DATE: 20040219

APPLICATION: WO 2003EP8568 (20030731) \*GB 200218037 (20020802) \*GB 200218036 (20020802) \*GB 200218035 (20020802) \*GB 200218051 (20020802) \*GB 200220197 (20020830) \*GB 200220199 (20020830) \*GB 200225524 (20021101) \*GB 200225531 (20021101) \*GB 200230164 (20021224) \*GB 200230168 (20021224) \*GB 200230170 (20021224) \*GB 20035028 (20030305)

PAGES: 51 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-039/00A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

33/3, K/7 (Item 7 from file: 399)  
 DI ALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rts. reserv.

136166052 CA: 136(11)166052v PATENT  
 Vaccine composition  
 INVENTOR(AUTHOR): Berthet, Francois-Xavier Jacques; Dalemans, Wilfried;  
 Denoel, Philippe; Dequesne, Guy; Feron, Christiane; Garcon, Nathalie;  
 Lobet, Yves; Poolman, Jan; Thiry, Georges; Thonnard, Joelle; Voet, Pierre  
 LOCATION: Belg.  
 ASSIGNEE: Smithkline Beecham Biologicals S. A.  
 PATENT: PCT International ; WO 200209746 A2 DATE: 20020207  
 APPLICATION: WO 2001EP8857 (20010731) \*EP 2000956369 (20000731) \*GB  
 20013170 (20010208)  
 PAGES: 125 pp. CODEN: PIXXD2 LANGUAGE: English  
 PATENT CLASSIFICATIONS:  
 CLASS: A61K-039/00A  
 DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;  
 CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;  
 GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;  
 LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI;  
 SK; SL; TJ; TM; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG;  
 KZ; MD; RU; TJ; TM. DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ;  
 TZ; UG; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC;  
 NL; PT; SE; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD;  
 TG

33/3, K/8 (Item 8 from file: 399)  
 DI ALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rts. reserv.

134146387 CA: 134(11)146387p PATENT  
 Immuno-protective and non-toxic Gram-neg. bleb vaccine suitable for  
 pediatric use  
 INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Dalemans, Wilfried L.  
 J.; Denoel, Philippe; Dequesne, Guy; Feron, Christiane; Lobet, Yves;  
 Poolman, Jan; Thiry, Georges; Thonnard, Joelle; Voet, Pierre  
 LOCATION: Belg.  
 ASSIGNEE: Smithkline Beecham Biologicals S. A.  
 PATENT: PCT International ; WO 200109350 A2 DATE: 20010208  
 APPLICATION: WO 2000EP7424 (20000731) \*GB 9918319 (19990803)  
 PAGES: 128 pp. CODEN: PIXXD2 LANGUAGE: English  
 PATENT CLASSIFICATIONS:  
 CLASS: C12N-015/74A; A61K-039/02B; C12N-015/31B; C12N-015/67B;  
 A61K-039/095B; A61K-039/116B; A61K-039/118B; A61K-039/09B; A61K-039/104B;  
 A61K-039/102B; A61K-039/295B; C07K-014/195B; C12N-001/21B  
 DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;  
 CA; CH; CN; CR; CU; CZ; DE; DK; DM; DZ; EE; ES; FI; GB; GD; GE; GH; GM; HR;  
 HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA;  
 MD; MG; MK; MN; MW; MX; MZ; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL;  
 TJ; TM; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD;  
 RU; TJ; TM. DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG;  
 ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT;  
 SE; BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG  
 ? E AU=GORAJ, CARINE

Ref	Items	Index-term
E1	2	AU=GORAJ, BOGUSLAW
E2	3	AU=GORAJ, BOZENA
E3	2	*AU=GORAJ, CARINE
E4	2	AU=GORAJ, E.

E5 1 AU=GORAJ, ELW RA  
 E6 1 AU=GORAJ, G Z.  
 E7 3 AU=GORAJ, I RENA E.  
 E8 3 AU=GORAJ, I RENA EWA  
 E9 1 AU=GORAJ, JAN  
 E10 9 AU=GORAJ, K  
 E11 4 AU=GORAJ, K.  
 E12 1 AU=GORAJ, K. K.

Enter P or PAGE for more

? S E1-E12

2 AU=GORAJ, BOGUSLAW  
 3 AU=GORAJ, BOZENA  
 2 AU=GORAJ, CARI NE  
 2 AU=GORAJ, E.  
 1 AU=GORAJ, ELW RA  
 1 AU=GORAJ, G Z.  
 3 AU=GORAJ, I RENA E.  
 3 AU=GORAJ, I RENA EWA  
 1 AU=GORAJ, JAN  
 9 AU=GORAJ, K  
 4 AU=GORAJ, K.  
 1 AU=GORAJ, K. K.

S34 32 E1-E12

? S S34 AND (HSF OR TRANSFERRI N)

32 S34  
 11528 HSF

205291 TRANSFERRI N

S35 1 S34 AND (HSF OR TRANSFERRI N)

? T S35/3, K/1

>>>KW C option is not available in file(s): 399

35/3, K/1 (Item 1 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

140180125 CA: 140(12)180125k PATENT

Vaccine composition comprising transferrin binding protein and Hsf  
 against *Neisseria meningitidis*, *Neisseria gonorrhoeae*, *Moraxella*  
*catarrhalis* and *Haemophilus influenzae*

INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Bi emans, Ralph;  
 Denoel, Philippe; Feron, Christiane; Goraj, Carine; Pool man, Jan; Weynants,  
 Vincent

LOCATI ON: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S.A.

PATENT: PCT International ; WO 200414419 A1 DATE: 20040219

APPLI CATI ON: WO 2003EP8567 (20030731) \*GB 200218037 (20020802) \*GB

200218036 (20020802) \*GB 200218035 (20020802) \*GB 200218051 (20020802) \*GB

200220197 (20020830) \*GB 200220199 (20020830) \*GB 200225524 (20021101) \*GB

200225531 (20021101) \*GB 200230164 (20021224) \*GB 200230168 (20021224) \*GB

200230170 (20021224) \*GB 20035028 (20030305)

PAGES: 64 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSI FI CATI ONS:

CLASS: A61K-039/095A; A61K-039/102B; A61K-039/00B

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;  
 CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;  
 GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;  
 LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;  
 SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN;  
 YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE  
 ; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK;  
 EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF;  
 BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

? E AU=POOLMAN, JAN

Ref	Items	Index-term
E1	1	AU=POOLMAN, J. P. J.
E2	6	AU=POOLMAN, J. T.
E3	116	*AU=POOLMAN, JAN
E4	14	AU=POOLMAN, JAN T
E5	70	AU=POOLMAN, JAN T.
E6	1	AU=POOLMAN, JAN TEUNI S
E7	5	AU=POOLMAN, JAN THEUNI S
E8	1	AU=POOLMAN, JOHANNES PETRUS JACOBUS
E9	161	AU=POOLMAN, JT
E10	1	AU=POOLMAN, K. H.
E11	1	AU=POOLMAN, KENNETH
E12	1	AU=POOLMAN, LESLIE JOHN

Enter P or PAGE for more

? S E1-E7 AND (HSF OR TRANSFERRIN OR NEISSERIA)

1	AU=POOLMAN, J. P. J.
6	AU=POOLMAN, J. T.
116	AU=POOLMAN, JAN
14	AU=POOLMAN, JAN T
70	AU=POOLMAN, JAN T.
1	AU=POOLMAN, JAN TEUNI S
5	AU=POOLMAN, JAN THEUNI S
11528	HSF
205291	TRANSFERRIN
158727	NEISSERIA

S36 104 E1-E7 AND (HSF OR TRANSFERRIN OR NEISSERIA)

? RD

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S37 88 RD (unique items)

? T S37/3, K/1-88

>>>KW C option is not available in file(s): 399

37/3, K/1 (Item 1 from file: 24)  
 DI ALOG(R) File 24: CSA Life Sciences Abstracts  
 (c) 2010 CSA. All rights reserved.

0004246786 IP ACCESSION NO: 13315803  
 An Outer Membrane Receptor of Neisseria meningitidis Involved in Zinc Acquisition with Vaccine Potential

Stork, Michiel; Bos, Martine P; Jongerius, Ilse; de Kok, Natasja;  
 Schilders, Ingrid; Weynants, Vincent E; Poolman, Jan T; Tommassen,  
 Jan  
 Department of Molecular Microbiology, Utrecht University, Utrecht, The  
 Netherlands

PLoS Pathogens, v 6, n 7, p [np], July 1, 2010  
 PUBLICATION DATE: 2010

PUBLISHER: Public Library of Science, 185 Berry Street San Francisco CA  
 94107 United States of America

DOCUMENT TYPE: Journal Article  
 RECORD TYPE: Abstract  
 LANGUAGE: English



SUMMARY LANGUAGE: English

ISSN: 1553-7366

ELECTRONIC ISSN: 1553-7374

FILE SEGMENT: Bacteriology Abstracts (Microbiology B); Immunology Abstracts

An Outer Membrane Receptor of *Neisseria meningitidis* Involved in Zinc Acquisition with Vaccine Potential

Stork, Michiel; Bos, Martine P; Jongerius, Ilse; de Kok, Natasja; Schilders, Ingrid; Weynants, Vincent E; Poolman, Jan T; Tommassen, Jan

ABSTRACT:

... of identifying novel vaccine candidates, we characterized in this study a hitherto unknown receptor in *Neisseria meningitidis*. We demonstrate that this receptor, designated ZnuD, is produced under zinc limitation and that...

... In a search for putative vaccine components, we have characterized here a new receptor of *Neisseria meningitidis*, a resident of the nasopharynx that occasionally causes sepsis and meningitis. We show that...

... DESCRIPTORS: membranes; Pathogens; Respiratory tract; Sepsis; Survival; Vaccines; Zinc; meningococcal disease; pore-forming proteins; virulence factors; *Neisseria meningitidis*

37/3, K/2 (Item 2 from file: 24)  
DI ALOG(R) File 24: CSA Life Sciences Abstracts  
(c) 2010 CSA. All rights reserved.

0003599239 IP ACCESSION NO: 8811906  
Immunogenicity, reactogenicity and persistence of meningococcal A, C, W 135 and Y-tetanus toxoid candidate conjugate (MenACWY-TT) vaccine formulations in adolescents aged 15-25 years

Oestergaard, Lars; Lebacqz, Edouard; Poolman, Jan; Maechler, Gudrun; Boutreau, Dominique  
Department of Infectious Diseases, Aarhus University Hospital, Denmark,  
[mailto: Dominique.Boutreau@skbio.com]

Vaccine, v 27, n 1, p 161-168, January 2009  
PUBLICATION DATE: 2009

PUBLISHER: Elsevier Science, The Boulevard Langford Lane Kidlington Oxford OX5 1GB UK, [mailto:usinfo-f@elsevier.com], [URL: http://www.elsevier.nl]

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

ISSN: 0264-410X

ELECTRONIC ISSN: 1873-2518

FILE SEGMENT: Bacteriology Abstracts (Microbiology B); Immunology Abstracts

Oestergaard, Lars; Lebacqz, Edouard; Poolman, Jan; Maechler, Gudrun; Boutreau, Dominique

DESCRIPTORS: Adolescence; Antibodies; Immunogenicity; Polysaccharides; Toxoids; Vaccines; meningococcal disease; *Neisseria meningitidis*

37/3, K/3 (Item 3 from file: 24)  
DIALOG(R) File 24: CSA Life Sciences Abstracts  
(c) 2010 CSA. All rights reserved.

0003160890 IP ACCESSION NO: 7931981  
Additive and Synergistic Bactericidal Activity of Antibodies Directed  
against Minor Outer Membrane Proteins of *Neisseria meningitidis*

Weynants, Vincent E; Feron, Christiane M; Goraj, Karine K; Bos, Martine  
P; Denoel, Philippe A; Verlant, Vincent G; Tommassen, Jan; Peak, Ian RA  
; Judd, Ralph C; Jennings, Michael P; Poolman, Jan T  
GlaxoSmithKline Biologicals, B-1330 Rixensart, Belgium Department of  
Molecular Microbiology, Utrecht University, 3584-CH Utrecht, The  
Netherlands. Institute for Glycomics, Griffith University, Southport QLD  
4215, Australia. Division of Biological Sciences, University of Montana,  
Missoula, Montana 59812. School of Molecular & Microbial Sciences,  
University of Queensland, Brisbane QLD 4072, Australia

Infection and Immunity, v 75, n 11, p 5434-5442, November 2007  
PUBLICATION DATE: 2007

PUBLISHER: American Society for Microbiology, 1752 N Street N.W  
Washington, DC 20036 USA, [URL: <http://www.asm.org/>]

DOCUMENT TYPE: Journal Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English  
ISSN: 0019-9567  
ELECTRONIC ISSN: 1098-5522  
FILE SEGMENT: Immunology Abstracts; Bacteriology Abstracts (Microbiology B)

Additive and Synergistic Bactericidal Activity of Antibodies Directed  
against Minor Outer Membrane Proteins of *Neisseria meningitidis*

... A; Verlant, Vincent G; Tommassen, Jan; Peak, Ian RA; Judd, Ralph C;  
Jennings, Michael P; Poolman, Jan T

ABSTRACT:

*Neisseria meningitidis* serogroup B is a major cause of bacterial  
meningitis in younger populations. The available...

... DESCRIPTORS: Antibodies; Bactericidal activity; Children; Complement;  
Cross-protection; Membrane vesicles; Meningitis; Mimicry; Vaccines;  
outer membrane proteins; *Neisseria meningitidis*

37/3, K/4 (Item 4 from file: 24)  
DIALOG(R) File 24: CSA Life Sciences Abstracts  
(c) 2010 CSA. All rights reserved.

0003148817 IP ACCESSION NO: 7930386  
Comparison of Phenotypically Indistinguishable but Geographically Distinct  
*Neisseria meningitidis* Group B Isolates in a Serum Bactericidal  
Antibody Assay

Findlow, Jamie; Holland, Ann; Andrews, Nick; Weynants, Vincent;  
Sotolongo, Franklin; Balmer, Paul; Poolman, Jan; Borrow, Ray  
Vaccine Evaluation Unit, Health Protection Agency North West, Manchester  
Laboratory, Manchester Medical Microbiology Partnership, P.O. Box 209, 2nd  
Floor, Clinical Sciences Building II, Manchester Royal Infirmary,

10523114HSFTBP.txt

Manchester, M13 9WZ. Health Protection Agency, Centre for Infections,  
Colindale, London, NW9 5EQ, United Kingdom GlaxoSmithKline Biologicals,  
Rixensart, Belgium Finlay Institute, Ave 27N. 19085, La Lisa A P 160017,  
Cod 11600, Havana, Cuba

Clinical and Vaccine Immunology, v 14, n 11, p 1451-1457, November 2007  
PUBLICATION DATE: 2007

PUBLISHER: American Society for Microbiology, 1752 N Street N.W  
Washington, DC 20036 USA, [URL: <http://www.asm.org/>]  
DOCUMENT TYPE: Journal Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English  
ISSN: 1556-6811  
ELECTRONIC ISSN: 1556-679X  
FILE SEGMENT: Bacteriology Abstracts (Microbiology B); Immunology Abstracts

Comparison of Phenotypically Indistinguishable but Geographically Distinct  
Neisseria meningitidis Group B Isolates in a Serum Bactericidal  
Antibody Assay

Findlow, Jamie; Holland, Ann; Andrews, Nick; Weynants, Vincent;  
Sotolongo, Franklin; Balmer, Paul; Poolman, Jan; Borrow, Ray

ABSTRACT:

The "gold standard" assay for measuring serologic protection against  
Neisseria meningitidis group B (MenB) is the serum bactericidal  
antibody (SBA) assay. Of vital importance to...

DESCRIPTORS: Antibodies; Capsular polysaccharides; Genotypes;  
Lipooligosaccharides; Membrane vesicles; Outer membranes;  
Standardization; Vaccines; Neisseria meningitidis

37/3, K/5 (Item 5 from file: 24)  
DIALOG(R) File 24: CSA Life Sciences Abstracts  
(c) 2010 CSA. All rights reserved.

0002964326 IP ACCESSION NO: 7175484  
Shielding of immunogenic domains in Neisseria meningitidis FrpB  
(FetA) by the major variable region

Kortekaas, Jeroen; Pettersson, Annika; Van der Biezen, Jenny; Weynants,  
Vincent E; Van der Ley, Peter; Poolman, Jan; Bos, Martine P;  
Tomassen, Jan  
Department of Molecular Microbiology and Institute of Biomembranes, Utrecht  
University, Padualaan, 3584 CH Utrecht, The Netherlands,  
[mailto: [m.p.bos@io.uu.nl](mailto:m.p.bos@io.uu.nl)]

Vaccine, v 25, n 1, p 72-84, January 2007  
PUBLICATION DATE: 2007

PUBLISHER: Elsevier Science Ltd., The Boulevard Langford Lane Kidlington  
Oxford OX5 1GB UK, [mailto: [usinfo-f@elsevier.com](mailto:usinfo-f@elsevier.com)],  
[URL: <http://www.elsevier.nl>]

DOCUMENT TYPE: Journal Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English  
ISSN: 0264-410X

10523114HSFTBP.txt

FILE SEGMENT: Bacteriology Abstracts (Microbiology B); Immunology Abstracts

Shielding of immunogenic domains in *Neisseria meningitidis* FrpB (FetA) by the major variable region

Kortekaas, Jeroen; Pettersson, Annika; Van der Biezen, Jenny; Weynants, Vincent E; Van der Ley, Peter; Poolman, Jan; Bos, Martine P; Tommassen, Jan

... DESCRIPTORS: sequence; Epitope mapping; Immune response; Immunity; Immunization; Immunofluorescence; Microscopy; Vaccines; Variable region; outer membrane proteins; *Neisseria meningitidis*

37/3, K/6 (Item 6 from file: 24)  
DIALOG(R) File 24: CSA Life Sciences Abstracts  
(c) 2010 CSA. All rights reserved.

0002816358 IP ACCESSION NO: 6737828  
Vaccine potential of the *Neisseria meningitidis* lactoferrin-binding proteins LbpA and LbpB

Pettersson, Annika; Kortekaas, Jeroen; Weynants, Vincent E; Voet, Pierre; Poolman, Jan T; Bos, Martine P; Tommassen, Jan  
Department of Molecular Microbiology, Institute of Biomembranes, Utrecht University, Padualaan 8, 3584 CH Utrecht, The Netherlands,  
[mailto:m.p.bos@i.o.uu.nl]

Vaccine, v 24, n 17, p 3545-3557, 2006  
PUBLICATION DATE: 2006

PUBLISHER: Butterworth-Heinemann, 313 Washington St. Newton MA 02158 USA

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

ISSN: 0264-410X

FILE SEGMENT: Bacteriology Abstracts (Microbiology B); Immunology Abstracts  
Vaccine potential of the *Neisseria meningitidis* lactoferrin-binding proteins LbpA and LbpB

Pettersson, Annika; Kortekaas, Jeroen; Weynants, Vincent E; Voet, Pierre; Poolman, Jan T; Bos, Martine P; Tommassen, Jan

#### ABSTRACT:

The vaccine potential of the *Neisseria meningitidis* lactoferrin-binding proteins LbpA and LbpB was evaluated. Sequencing and sequence alignments suggested that...

... DESCRIPTORS: Outer membranes; Antisera; LbpA protein; Nucleotide sequence; Monoclonal antibodies; Bactericidal activity; Western blotting; LbpB protein; *Neisseria meningitidis*; *Escherichia coli*

37/3, K/7 (Item 1 from file: 399)  
DIALOG(R) File 399: CA SEARCH(R)  
(c) 2010 American Chemical Society. All rights reserved.

152343487 CA: 152(15)343487u PATENT  
Outer membrane vesicle (OMV) vaccine comprising protein NMB0964 from  
Page 20

## Neisseria meningitidis

INVENTOR(AUTHOR): Bos, Martine Petronella; Poolman, Jan; Stork, Michiel;  
Tomassen, Johannes Petrus Maria; Veynants, Vincent

LOCATION: Belg.

ASSIGNEE: GlaxoSmithKline Biologicals S.A.; Utrecht University

PATENT: PCT International ; WO 201025964 A1 DATE: 20100311

APPLICATION: WO 2009EP52689 (20090306) \*GB 200816447 (20080908)

PAGES: 43pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

IPC/8 + Level Value Position Status Version Action Source Office:

A61K-0039/095

A I F B 20060101

H EP

C07K-0014/22

A I L B 20060101

H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB; BG; BH; BR;  
BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES;  
FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN;  
KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX;  
MY; MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG;  
SK; SL; SM; ST; SV; SY; TJ; TM; TN; TR DESIGNATED REGIONAL: AT; BE; BG; CH;  
CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LT; LU; LV;  
MC; MK; MT; NL; NO; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA;  
GN; GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL;  
SZ; TZ; UG; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

37/3, K/8 (Item 2 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

150534080 CA: 150(25)534080z JOURNAL

Genetically modified L3,7 and L2 lipooligosaccharides from Neisseria  
meningitidis serogroup B confer a broad cross-bactericidal response

AUTHOR(S): Veynants, V.; Denoel, P.; Devos, N.; Janssens, D.; Feron, C.;  
Goraj, K.; Monin, P.; Monnom, D.; Tans, C.; Vandercammen, A.; Vauters, F.;  
Poolman, Jan T.

LOCATION: GlaxoSmithKline Biologicals, B 1330, Rixensart, Belg.

JOURNAL: Infect. Immun. (Infection and Immunity) DATE: 2009 VOLUME: 77

NUMBER: 5 PAGES: 2084-2093 CODEN: INFI BR ISSN: 0019-9567 LANGUAGE:

English PUBLISHER: American Society for Microbiology

37/3, K/9 (Item 3 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

150209307 CA: 150(11)209307r PATENT

Typing of Neisseria by genotyping genes of lipooligosaccharide  
biosynthesis

INVENTOR(AUTHOR): Devos, Nathalie Isabelle; Di Paolo, Emmanuel Enrico  
Alexandre; Feron, Christiane; Poolman, Jan

LOCATION: Belg.

ASSIGNEE: GlaxoSmithKline Biologicals S. A.

PATENT: PCT International ; WO 200916237 A2 DATE: 20090205

APPLICATION: WO 2008EP60077 (20080731) \*US 2007PV953551 (20070802)

PAGES: 63pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

IPC/8 + Level Value Position Status Version Action Source Office:

C12Q-0001/68

A I F B 20060101

H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB; BG; BH; BR;  
BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES;  
FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN;  
KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX;  
MY; MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG;  
SK; SL; SM; ST; SV; SY; TJ; TM; TN; TR DESIGNATED REGIONAL: AT; BE; BG; CH

10523114HSFTBP.txt

; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LT; LU; LV;  
MC; MT; NL; NO; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN;  
GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ;  
TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

37/3, K/10 (Item 4 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

149553936 CA: 149(25)553936d PATENT

Carrier protein effects on immune response to combination vaccines

INVENTOR(AUTHOR): Poolman, Jan

LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S. A.

PATENT: PCT International ; WO 2008135514 A1 DATE: 20081113

APPLICATION: WO 2008EP55383 (20080430) \*GB 20078522 (20070502) \*GB  
200712658 (20070628) \*GB 20082108 (20080205)

PAGES: 134pp. CODEN: PIXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

IPC/8 + Level Value Position Status Version Action Source Office:

A61K-0039/116 A I F B 20060101 H EP

A61P-0031/04 A I L B 20060101 H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB; BG; BH; BR;  
BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES;  
FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN;  
KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX;  
MY; MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG;  
SK; SL; SM; SV; SY; TJ; TM; TN; TR; TT DESIGNATED REGIONAL: AT; BE; BG; CH;  
; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LT; LU; LV;  
MC; MT; NL; NO; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN;  
GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ;  
TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

37/3, K/11 (Item 5 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

149353141 CA: 149(16)353141d JOURNAL

Combination vaccines containing DTPa-Hib: impact of IPV and  
coadministration of CRM197 conjugates

AUTHOR(S): Dagan, Ron; Poolman, Jan T.; Zepp, Fred

LOCATION: Pediatric Infectious Disease Unit, Soroka University Medical  
Center, 84101, Beer Sheva, Israel

JOURNAL: Expert Rev. Vaccines (Expert Review of Vaccines) DATE: 2008

VOLUME: 7 NUMBER: 1 PAGES: 97-115 CODEN: ERVXAX ISSN: 1476-0584

LANGUAGE: English PUBLISHER: Future Drugs Ltd.

37/3, K/12 (Item 6 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

149007218 CA: 149(1)7218f JOURNAL

A novel combined Haemophilus influenzae type b-Neisseria meningitidis  
serogroups C and Y-tetanus-toxoid conjugate vaccine is immunogenic and  
induces immune memory when co-administered with DTPa-HBV-IPV and  
conjugate pneumococcal vaccines in infants

AUTHOR(S): Nolan, Terry; Lambert, Stephen; Robertson, Don; Marshall, Helen;  
; Richmond, Peter; Streeton, Catherine; Poolman, Jan; Boutreau, Dominique

LOCATION: Murdoch Children's Research Institute and School of Population  
Health, The University of Melbourne, Australia

JOURNAL: Vaccine (Vaccine) DATE: 2007 VOLUME: 25 NUMBER: 51 PAGES:  
8487-8499 CODEN: VACODE ISSN: 0264-410X PUBLISHER ITEM IDENTIFIER:  
0264-410X(07)01155-3 LANGUAGE: English PUBLISHER: Elsevier Ltd.

37/3, K/13 (Item 7 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

148099084 CA: 148(5)99084q PATENT

Lipooligosaccharide meningococcal vaccines

INVENTOR(AUTHOR): Devos, Nathalie; Feron, Christiane; Poolman, Jan;  
Weynants, Vincent

LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals SA

PATENT: PCT International ; WO 2007144316 A2 DATE: 20071221

APPLICATION: WO 2007EP55676 (20070608) \*US 2006PV804475 (20060612) \*US  
2006PV804489 (20060612)

PAGES: 83pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-000/A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BH; BR; BW  
BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES; FI;  
GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP;  
KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; MG; MK; MN; MW; MX; MY; MZ;  
NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL;  
SM; SV; SY; TJ; TM; TN; TR; TT; TZ; UA DESIGNATED REGIONAL: AT; BE; BG; CH  
; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC;  
MT; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW  
ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG;  
ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

37/3, K/14 (Item 8 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

147116454 CA: 147(6)116454j PATENT

Vaccines against Neisseria meningitidis and Streptococcus pneumoniae  
based on conjugated capsular polysaccharides from multiple meningococcal  
and/or pneumococcal serogroups

INVENTOR(AUTHOR): Poolman, Jan

LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S. A.

PATENT: PCT International ; WO 200771786 A2 DATE: 20070628

APPLICATION: WO 2006EP70173 (20061222) \*GB 200526412 (20051223) \*GB  
20067088 (20060407)

PAGES: 53pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

IPC(R) 8 + Level Value Position Status Version Action Source Office:

A61K-0039/095 A I F B 20060101 H EP

A61K-0039/09 A I L B 20060101 H EP

A61K-0039/116 A I L B 20060101 H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;  
BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;  
GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ;  
LA; LC; LK; LR; LS; LT; LU; LV; LY; MA; MD; MG; MK; MN; MW; MX; MY; MZ; NA;  
NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM;  
SV; SY; TJ; TM; TN; TR; TT; TZ; UA; UG DESIGNATED REGIONAL: AT; BE; BG; CH  
; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC;  
NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML;  
MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM;  
ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

37/3, K/15 (Item 9 from file: 399)  
 DI ALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rts. reserv.

146315013 CA: 146(16)315013u PATENT  
 Serum bactericidal assay for *Neisseria meningitidis*-specific antibodies  
 INVENTOR(AUTHOR): De Vleeschauwer, Isabel; Durant, Nathalie; Poolman, Jan  
 ; Weynants, Vincent  
 LOCATION: Belg.  
 ASSIGNEE: Glaxosmithkline Biologicals S.A.  
 PATENT: PCT International ; WO 200728408 A1 DATE: 20070315  
 APPLICATION: WO 2005EP9566 (20050905)  
 PAGES: 52pp. CODEN: PIXXD2 LANGUAGE: English  
 PATENT CLASSIFICATIONS:  
 IPCR/8 + Level Value Position Status Version Action Source Office:  
 G01N-0033/569 A I F B 20060101 H EP  
 C12N-0001/22 A I L B 20060101 H EP  
 DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;  
 BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;  
 GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KP; KR; KZ; LC; LK; LR;  
 LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NG; NI; NO; NZ; OM; PG;  
 PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ; TM; TN; TR; TT; TZ;  
 UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW DESIGNATED REGIONAL: AT; BE; BG; CH  
 ; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC;  
 NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GN; GQ; GW; ML;  
 MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM;  
 ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

37/3, K/16 (Item 10 from file: 399)  
 DI ALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rts. reserv.

146161138 CA: 146(9)161138z JOURNAL  
 Immunogenicity and safety of three doses of a bivalent (B:4:P1.19, 15 and  
 B:4:P1.7-2, 4) meningococcal outer membrane vesicle vaccine in healthy  
 adolescents  
 AUTHOR(S): Boutriau, Dominique; Poolman, Jan; Borrow, Ray; Findlow, Jamie  
 ; Domingo, Javier Diez; Puig-Barbera, Joan; Baldo, Jose Maria; Planelles,  
 Victoria; Jubert, Angels; Colomer, Julia; Gil, Angel; Leve, Karin; Kervyn,  
 Anne-Diane; Weynants, Vincent; Dominguez, Francisco; Barbera, Ramon;  
 Sotolongo, Franklin  
 LOCATION: GlaxoSmithKline Biologicals, Rixensart, Belg.  
 JOURNAL: Clin. Vaccine Immunol. (Clinical and Vaccine Immunology) DATE:  
 2007 VOLUME: 14 NUMBER: 1 PAGES: 65-73 CODEN: CVILA6 ISSN: 1556-6811  
 LANGUAGE: English PUBLISHER: American Society for Microbiology

37/3, K/17 (Item 11 from file: 399)  
 DI ALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rts. reserv.

146099125 CA: 146(6)99125n PATENT  
 Combination vaccine comprising a *Haemophilus influenzae* type b saccharide  
 conjugate and addnl. bacterial saccharide conjugates  
 INVENTOR(AUTHOR): Biemans, Ralph Leon; Boutriau, Dominique; Capi au,  
 Carine; Denoel, Philippe; Duvivier, Pierre; Poolman, Jan  
 LOCATION: Belg.  
 ASSIGNEE: Glaxosmithkline Biologicals S.A.  
 PATENT: PCT International ; WO 200700322 A1 DATE: 20070104  
 APPLICATION: WO 2006EP6210 (20060623) \*GB 200513069 (20050627) \*GB



200513071 (20050627) \*GB 200515556 (20050728) \*GB 200524204 (20051128) \*GB  
 200526040 (20051221) \*GB 200526041 (20051221)

PAGES: 52pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

IPC/8 + Level Value Position Status Version Action Source Office:

A61K-0039/095 A I F B 20060101 H EP

A61K-0039/102 A I L B 20060101 H EP

A61K-0039/116 A I L B 20060101 H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;  
 BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;  
 GE; GH; GM; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA;  
 LC; LK; LR; LS; LT; LU; LV; LY; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NG; NI;  
 NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ;  
 TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC DESIGNATED REGIONAL: AT; BE; BG; CH;  
 CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC;  
 NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML;  
 MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM;  
 ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

37/3, K/18 (Item 12 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

146099123 CA: 146(6)99123k PATENT

Immunogenic composition containing *Neisseria meningitidis* capsular  
 saccharides

INVENTOR(AUTHOR): Biemans, Ralph Leon; Boutreau, Dominique; Capi au,  
 Carine; Denoel, Philippe; Duvivier, Pierre; Poolman, Jan

LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S.A.

PATENT: PCT International ; WO 200700341 A2 DATE: 20070104

APPLICATION: WO 2006EP6268 (20060623) \*GB 200513069 (20050627) \*GB

200513071 (20050627) \*GB 200515556 (20050728) \*GB 200524204 (20051128) \*GB  
 200526041 (20051221) \*GB 200526040 (20051221)

PAGES: 66pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

IPC/8 + Level Value Position Status Version Action Source Office:

A61K-0039/095 A I F B 20060101 H EP

A61K-0039/102 A I L B 20060101 H EP

A61K-0039/116 A I L B 20060101 H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;  
 BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;  
 GE; GH; GM; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA;  
 LC; LK; LR; LS; LT; LU; LV; LY; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NG; NI;  
 NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ;  
 TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC DESIGNATED REGIONAL: AT; BE; BG; CH;  
 CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC;  
 NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML;  
 MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM;  
 ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

37/3, K/19 (Item 13 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

146099122 CA: 146(6)99122j PATENT

*Neisseria meningitidis* capsular polysaccharide vaccine conjugate

INVENTOR(AUTHOR): Biemans, Ralph Leon; Boutreau, Dominique; Capi au,  
 Carine; Denoel, Philippe; Duvivier, Pierre; Poolman, Jan

LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S.A.

PATENT: PCT International ; WO 200700314 A2 DATE: 20070104

APPLI CATION: WO 2006EP6188 (20060623) \*GB 200513071 (20050627) \*GB 200513069 (20050627) \*GB 200515556 (20050728) \*GB 200524204 (20051128) \*GB 200526040 (20051221) \*GB 200526041 (20051221)

PAGES: 46pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSI FICATIONS:

I PCR/ 8 + Level Value Position Status Version Action Source Office:

A61K-0039/095 A I F B 20060101 H EP

A61K-0039/102 A I L B 20060101 H EP

A61K-0039/116 A I L B 20060101 H EP

A61P-0031/04 A I L B 20060101 H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LV; LY; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC DESIGNATED REGIONAL: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

37/3, K/20 (Item 14 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

146099120 CA: 146(6)99120g PATENT

Immunogenic composition containing Neisseria meningitidis capsular polysaccharides

INVENTOR(AUTHOR): Bi emans, Ralph Leon; Boutri au, Domi nique; Capi au, Carine; Denoel, Philippe; Duvivier, Pierre; Pool man, Jan

LOCATI ON: Bel g.

ASSIGNEE: Gl axosmithkline Bi ological s S. A.

PATENT: PCT International ; WO 200700342 A2 DATE: 20070104

APPLI CATION: WO 2006EP6269 (20060623) \*GB 200513069 (20050627) \*GB 200513071 (20050627) \*GB 200515556 (20050728) \*GB 200524204 (20051128) \*GB 200526040 (20051221) \*GB 200526041 (20051221)

PAGES: 64pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSI FICATIONS:

I PCR/ 8 + Level Value Position Status Version Action Source Office:

A61K-0039/095 A I F B 20060101 H EP

A61K-0039/102 A I L B 20060101 H EP

A61K-0039/116 A I L B 20060101 H EP

A61P-0031/04 A I L B 20060101 H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LV; LY; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC DESIGNATED REGIONAL: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

37/3, K/21 (Item 15 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

146099118 CA: 146(6)99118n PATENT

Combi nation vaccines comprising Haemophilus influenzae type b saccharide

10523114HSFTBP.txt

conjugate, an addnl. bacterial saccharide conjugate, and further antigens  
INVENTOR(AUTHOR): Biemans, Ralph Leon; Boutriaux, Dominique; Capi au,  
Carine; Denoel, Philippe; Duvivier, Pierre; Poolman, Jan

LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S.A.

PATENT: PCT International ; WO 200700327 A1 DATE: 20070104

APPLICATION: WO 2006EP6220 (20060623) \*GB 200513069 (20050627) \*GB  
200513071 (20050627) \*GB 200515556 (20050728) \*GB 200524204 (20051128) \*GB  
200526041 (20051221) \*GB 200526040 (20051221)

PAGES: 49pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

IPC/8 + Level Value Position Status Version Action Source Office:

A61K-0039/095 A I F B 20060101 H EP

A61K-0039/102 A I L B 20060101 H EP

A61K-0039/116 A I L B 20060101 H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;  
BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;  
GE; GH; GM; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA;  
LC; LK; LR; LS; LT; LU; LV; LY; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NG; NI;  
NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ;  
TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC DESIGNATED REGIONAL: AT; BE; BG; CH;  
CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC;  
NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML;  
MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM;  
ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

37/3, K/22 (Item 16 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

145417014 CA: 145(21)417014s PATENT

Meningococcal class 1 outer-membrane protein vaccine

INVENTOR(AUTHOR): Seid, Jr., Robert C.; Paradiso, Peter R.; Poolman, Jan  
T.; Hoogerhout, Peter; Wertz, Emmanuel J. H. J.; Van Der Ley, Peter;  
Heckels, John Edward; Clarke, Ian Nicholas

LOCATION: USA

ASSIGNEE: Wyeth Holdings Corporation; De Staat der Nederlanden

Vertegenwoordigd Door De Minister Van Welzijn, Volksgezondheid En Cultuur

PATENT: United States ; US 7118757 B1 DATE: 20061010

APPLICATION: US 204808 (19940215) \*NL 883111 (19881219) \*NL 8936  
(19890106) \*NL 891612 (19890626) \*US 691005 (19891219) \*WO 89US5678  
(19891219)

PAGES: 88pp., Cont. of U.S. Ser. No. 691,005. CODEN: USXXAM LANGUAGE:  
English

PATENT CLASSIFICATIONS:

CLASS: 424250100

IPC/8 + Level Value Position Status Version Action Source Office:

A61K-0039/095 A I F B 20060101 20061010 H US

A61K-0039/02 A I L B 20060101 20061010 H US

A61K-0039/385 A I L B 20060101 20061010 H US

A61K-0039/38 A I L B 20060101 20061010 H US

C07K-0001/00 A I L B 20060101 20061010 H US

37/3, K/23 (Item 17 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

143131822 CA: 143(8)131822p PATENT

A gram-negative bacterium with disruption of lipopolysaccharide (LPS)  
transport to the outer membrane and use thereof as a vaccine

INVENTOR(AUTHOR): Bos, Martine Petronella; Poolman, Jan; Tefsen, Boris;

Tomassen, Johannes Petrus Maria

LOCATI ON: Belg.

ASSI GNEE: Glaxosmithkline Biologicals S.A.; Utrecht University

PATENT: PCT International ; WO 200564021 A2 DATE: 20050714

APPLI CATION: WO 2004EP14770 (20041221) \*GB 200329827 (20031223) \*GB

200416398 (20040722)

PAGES: 96 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSI FI CATIONS:

CLASS: C12R-001/36A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW DESIGNATED REGIONAL: BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; MC; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

37/3, K/24 (Item 18 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

142387960 CA: 142(21)387960r PATENT

Protein and nucleotide sequences of Bordetella protein BASB232 and its therapeutic use

INVENTOR(AUTHOR): Castado, Gindy; Denoel, Philippe; Godfroid, Fabrice;

Poolman, Jan

LOCATI ON: Belg.

ASSI GNEE: Glaxosmithkline Biologicals S. A.

PATENT: PCT International ; WO 200532584 A2 DATE: 20050414

APPLI CATION: WO 2004EP11082 (20041001) \*GB 200323113 (20031002) \*GB

200323112 (20031002)

PAGES: 172 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSI FI CATIONS:

CLASS: A61K-039/10A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW DESIGNATED REGIONAL: BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

37/3, K/25 (Item 19 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

140259048 CA: 140(16)259048w PATENT

Neisseria outer membrane FrpB proteins containing loop-deletions for improved refolding and vaccine use

INVENTOR(AUTHOR): Biemans, Ralph; Denoel, Philippe; Feron, Christiane;

Goraj, Karine; Kortekaas, Jeroen; Poolman, Jan; Tomassen, Jan; Veynants, Vincent

LOCATI ON: Belg.

ASSI GNEE: Glaxosmithkline Biologicals S. A.; Utrecht University;

Technology Foundation (Stichting Voor de Technische Wetenschappen)

10523114HSFTBP.txt

PATENT: PCT International ; WO 200420463 A2 DATE: 20040311

APPLICATION: WO 2003EP9634 (20030828) \*GB 200220199 (20020830)

PAGES: 104 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATION:

CLASS: C07K-014/00A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;  
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;  
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;  
LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;  
SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN;  
YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE  
; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK;  
EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF;  
BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

37/3, K/26 (Item 20 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

140249770 CA: 140(16)249770m PATENT

Refolding of recombinantly produced NspA protein from *Neisseria* using the detergent SB-12 in an alkaline refolding buffer and use of NspA in the treatment, prevention and diagnosis of *Neisseria* infections

INVENTOR(AUTHOR): Biemans, Ralph; Bos, Martine; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Poolman, Jan; Tomassen, Jan; Veynants, Vincent  
LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S. A.; Utrecht University

PATENT: PCT International ; WO 200420452 A2 DATE: 20040311

APPLICATION: WO 2003EP10085 (20030828) \*GB 200220197 (20020830)

PAGES: 62 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATION:

CLASS: C07K-000/A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;  
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;  
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;  
LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;  
SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN;  
YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE  
; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK;  
EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF;  
BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

37/3, K/27 (Item 21 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

140198071 CA: 140(13)198071z PATENT

Meningococcal genetically engineered vaccine composition which has a fixed or locked lipooligosaccharide (LOS) immunotype

INVENTOR(AUTHOR): Biemans, Ralph; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Jennings, Michael Paul; Poolman, Jan; Veynants, Vincent  
LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals Sa; The University of Queensland

PATENT: PCT International ; WO 200415099 A2 DATE: 20040219

APPLICATION: WO 2003EP8569 (20030731) \*GB 200218037 (20020802) \*GB  
200218036 (20020802) \*GB 200218035 (20020802) \*GB 200218051 (20020802) \*GB  
200220197 (20020830) \*GB 200220199 (20020830) \*GB 200225524 (20021101) \*GB  
200225531 (20021101) \*GB 200230164 (20021224) \*GB 200230168 (20021224) \*GB  
200230170 (20021224) \*GB 20035028 (20030305)

PAGES: 42 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATION:

CLASS: C12N-015/00A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

37/3, K/28 (Item 22 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

140198065 CA: 140(13)198065a PATENT

Vaccine compositions comprising Neisserial adhesin, autotransporter, toxin, iron acquisition protein and membrane-associated protein against Neisserial infection

INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Biemans, Ralph; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Poolman, Jan; Weynants, Vincent

LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S.A.

PATENT: PCT International ; WO 200414418 A2 DATE: 20040219

APPLICATION: WO 2003EP8571 (20030731) \*GB 200218037 (20020802) \*GB 200218036 (20020802) \*GB 200218035 (20020802) \*GB 200218051 (20020802) \*GB 200220197 (20020830) \*GB 200220199 (20020830) \*GB 200225524 (20021101) \*GB 200225531 (20021101) \*GB 200230164 (20021224) \*GB 200230168 (20021224) \*GB 200230170 (20021224) \*GB 20035028 (20030305)

PAGES: 113 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-039/02A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

37/3, K/29 (Item 23 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

140180125 CA: 140(12)180125k PATENT

Vaccine composition comprising transferrin binding protein and Hsf against Neisseria meningitidis, Neisseria gonorrhoeae, Moraxella catarrhalis and Haemophilus influenzae

INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Biemans, Ralph; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Poolman, Jan; Weynants, Vincent

LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S.A.

PATENT: PCT International ; WO 200414419 A1 DATE: 20040219

APPLICATION: WO 2003EP8567 (20030731) \*GB 200218037 (20020802) \*GB 200218036 (20020802) \*GB 200218035 (20020802) \*GB 200218051 (20020802) \*GB 200220197 (20020830) \*GB 200220199 (20020830) \*GB 200225524 (20021101) \*GB 200225531 (20021101) \*GB 200230164 (20021224) \*GB 200230168 (20021224) \*GB

200230170 (20021224) \*GB 20035028 (20030305)

PAGES: 64 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-039/095A; A61K-039/102B; A61K-039/00B

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

37/3, K/30 (Item 24 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

140180124 CA: 140(12)180124j PATENT

Engineered meningococcal strains comprising LOS subunit or outer membrane vesicle with downregulated or deleted PorA, QpA and/or QpC for use as neisserial vaccines

INVENTOR(AUTHOR): Biemans, Ralph; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Poolman, Jan; Weynants, Vincent

LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals SA

PATENT: PCT International ; WO 200414417 A2 DATE: 20040219

APPLICATION: WO 2003EP8568 (20030731) \*GB 200218037 (20020802) \*GB

200218036 (20020802) \*GB 200218035 (20020802) \*GB 200218051 (20020802) \*GB

200220197 (20020830) \*GB 200220199 (20020830) \*GB 200225524 (20021101) \*GB

200225531 (20021101) \*GB 200230164 (20021224) \*GB 200230168 (20021224) \*GB

200230170 (20021224) \*GB 20035028 (20030305)

PAGES: 51 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-039/00A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

37/3, K/31 (Item 25 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

137293549 CA: 137(20)293549h PATENT

Multi-valent vaccine compositions

INVENTOR(AUTHOR): Boutreau, Dominique; Capi au, Carine; Desmons, Pierre Michel; Lemine, Dominique; Poolman, Jan

LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S.A.

PATENT: PCT International ; WO 200280965 A2 DATE: 20021017

APPLICATION: WO 2002EP3573 (20020328) \*GB 20018364 (20010403)

PAGES: 31 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-039/295A; A61K-039/385B; A61P-031/04B; A61P-031/12B

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;

10523114HSFTBP.txt

CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;  
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;  
LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; OM; PH; PL; PT; RO; RU; SD; SE;  
SG; SI; SK; SL; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZM; ZW  
AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW  
; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;  
GR; IE; IT; LU; MC; NL; PT; SE; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW  
ML; MR; NE; SN; TD; TG

37/3, K/32 (Item 26 from file: 399)  
DIALOG(R) File 399: CA SEARCH(R)  
(c) 2010 American Chemical Society. All rts. reserv.

137184449 CA: 137(13)184449e PATENT  
Vaccine composition  
INVENTOR(AUTHOR): Berthet, Francois-Xavier Jacques; Lobet, Yves; Poolman,  
Jan; Verlant, Vincent Georges Christian Louis  
LOCATION: Belg.  
ASSIGNEE: Smithkline Beecham Biologicals S.A.  
PATENT: PCT International ; WO 200262380 A2 DATE: 20020815  
APPLICATION: WO 2002EP1356 (20020208) \*GB 20013169 (20010208)  
PAGES: 75 pp. CODEN: PIXXD2 LANGUAGE: English  
PATENT CLASSIFICATIONS:  
CLASS: A61K-039/116A; A61P-031/04B  
DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;  
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;  
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;  
LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; OM; PH; PL; PT; RO; RU; SD; SE;  
SG; SI; SK; SL; TJ; TM; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZM; ZW AM;  
AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW MZ  
; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR;  
IE; IT; LU; MC; NL; PT; SE; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW ML;  
MR; NE; SN; TD; TG

37/3, K/33 (Item 27 from file: 399)  
DIALOG(R) File 399: CA SEARCH(R)  
(c) 2010 American Chemical Society. All rts. reserv.

137184447 CA: 137(13)184447c PATENT  
Vaccine composition comprising hyperblebbing Gram-neg. bacteria which  
have down-regulated tol genes and mutated peptidoglycan-binding proteins  
INVENTOR(AUTHOR): Berthet, Francois-Xavier Jacques; Denoel, Philippe;  
Neyt, Cecile Anne; Poolman, Jan; Thonnard, Joelle  
LOCATION: Belg.  
ASSIGNEE: Smithkline Beecham Biologicals S.A.  
PATENT: PCT International ; WO 200262378 A2 DATE: 20020815  
APPLICATION: WO 2002EP1361 (20020208) \*GB 20013171 (20010208)  
PAGES: 71 pp. CODEN: PIXXD2 LANGUAGE: English  
PATENT CLASSIFICATIONS:  
CLASS: A61K-039/00A  
DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;  
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;  
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;  
LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; OM; PH; PL; PT; RO; RU; SD; SE;  
SG; SI; SK; SL; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZM; ZW  
AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW  
; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;  
GR; IE; IT; LU; MC; NL; PT; SE; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW  
ML; MR; NE; SN; TD; TG



37/3, K/34 (Item 28 from file: 399)  
 DI ALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rts. reserv.

136308525 CA: 136(20)308525c PATENT  
 Peptides mimic epitopes of meningococcal surface lipooligosaccharides and monoclonal antibodies against them for diagnosis and treatment of meningitis  
 INVENTOR(AUTHOR): De Bolle, Xavier Thomas; Letesson, Jean-Jacques; Lobet, Yves; Mertens, Pascal Yvon; Poolman, Jan; Voet, Pierre  
 LOCATION: Belg.  
 ASSIGNEE: Smithkline Beecham Biological S. A.  
 PATENT: PCT International ; WO 200228888 A2 DATE: 20020411  
 APPLICATION: WO 2001EP11409 (20011003) \*GB 200024200 (20001003)  
 PAGES: 55 pp. CODEN: PIXXD2 LANGUAGE: English  
 PATENT CLASSIFICATIONS:  
 CLASS: C07K-007/04A; A61K-039/095B; G01N-033/68B; C12N-015/11B;

C12N-005/20B

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; PH; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM. DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

37/3, K/35 (Item 29 from file: 399)  
 DI ALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rts. reserv.

136277516 CA: 136(18)277516u JOURNAL  
 Outer membrane protein vesicle vaccines for meningococcal disease  
 AUTHOR(S): Frasch, Carl E.; Van Alphen, Loek; Holst, Johan; Poolman, Jan T.; Rosenqvist, Einar  
 LOCATION: Division of Bacterial Products, Center for Biologicals Evaluation and Research, Rockville, MD, USA  
 JOURNAL: Methods Mol. Med. DATE: 2001 VOLUME: 66 NUMBER: Meningococcal Vaccines PAGES: 81-107 CODEN: MMMEFN LANGUAGE: English PUBLISHER: Humana Press Inc.

37/3, K/36 (Item 30 from file: 399)  
 DI ALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rts. reserv.

136276681 CA: 136(18)276681g JOURNAL  
 Animal models for meningococcal disease  
 AUTHOR(S): Gorringe, Andrew R.; Reddin, Karen M.; Voet, Pierre; Poolman, Jan T.  
 LOCATION: Center for Applied Microbiology and Research, Salisbury, UK  
 JOURNAL: Methods Mol. Med. DATE: 2001 VOLUME: 66 NUMBER: Meningococcal Vaccines PAGES: 241-254 CODEN: MMMEFN LANGUAGE: English PUBLISHER: Humana Press Inc.

37/3, K/37 (Item 31 from file: 399)  
 DI ALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rts. reserv.

136068701 CA: 136(5)68701m PATENT

Multi-valent capsular polysaccharide vaccines

INVENTOR(AUTHOR): Boutreau, Dominique; Capi au, Carine; Desmons, Pierre Michel; Lemoine, Dominique; Poolman, Jan

LOCATION: Belg.

ASSIGNEE: Smithkline Beecham Biologicals S.A.

PATENT: PCT International ; WO 200200249 A2 DATE: 20020103

APPLICATION: WO 2001EP7288 (20010627) \*GB 200015999 (20000629) \*GB 20018363 (20010403) \*GB 20018364 (20010403)

PAGES: 31 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-039/00A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG

37/3, K/38 (Item 32 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

134325189 CA: 134(23)325189x PATENT

Novel method of determining antibody response to pneumococcal capsular polysaccharide conjugate vaccine in humans

INVENTOR(AUTHOR): Laferriere, Craig Antony Joseph; Poolman, Jan; Slaoui, Moncef Mohamed

LOCATION: Belg.

ASSIGNEE: Smithkline Beecham Biologicals S.A.

PATENT: PCT International ; WO 200130390 A2 DATE: 20010503

APPLICATION: WO 2000EP10733 (20001027) \*GB 9925559 (19991028)

PAGES: 36 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-047/48A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CR; CU; CZ; DE; DK; DM; DZ; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG

37/3, K/39 (Item 33 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

134146387 CA: 134(11)146387p PATENT

Immuno-protective and non-toxic Gram-neg. bleb vaccine suitable for pediatric use

INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Dalemans, Wilfried L. J.; Denoel, Philippe; Dequesne, Guy; Feron, Christiane; Lobet, Yves; Poolman, Jan; Thiry, Georges; Thonnard, Joelle; Voet, Pierre

LOCATION: Belg.

ASSIGNEE: Smithkline Beecham Biologicals S.A.

PATENT: PCT International ; WO 200109350 A2 DATE: 20010208

APPLICATION: WO 2000EP7424 (20000731) \*GB 9918319 (19990803)

PAGES: 128 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: C12N-015/74A; A61K-039/02B; C12N-015/31B; C12N-015/67B;  
A61K-039/095B; A61K-039/116B; A61K-039/118B; A61K-039/09B; A61K-039/104B;  
A61K-039/102B; A61K-039/295B; O07K-014/195B; C12N-001/21B

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;  
CA; CH; CN; CR; CU; CZ; DE; DK; DM; DZ; EE; ES; FI; GB; GD; GE; GH; GM; HR;  
HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA;  
MD; MG; MK; MN; MW; MX; MZ; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL;  
TJ; TM; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD;  
RU; TJ; TM; DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG;  
; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT;  
SE; BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG

37/3, K/40 (Item 34 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

133265650 CA: 133(19)265650h PATENT

Vaccine

INVENTOR(AUTHOR): Capi au, Carine; Deschamps, Marguerite; Desmons, Pierre  
Michel; Laferriere, Craig Antony Joseph; Poolman, Jan; Prieels, Jean-paul

LOCATION: Belg.

ASSIGNEE: Smithkline Beecham Biologicals S.A.

PATENT: PCT International ; WO 200056358 A2 DATE: 20000928

APPLICATION: WO 2000EP2465 (20000317) \*GB 996437 (19990319) \*GB 999077  
(19990420) \*GB 999466 (19990423) \*GB 9916677 (19990715)

PAGES: 78 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-039/09A; A61K-039/39B; A61K-039/385B; A61P-031/04B

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; CA;  
CH; CN; CR; CU; CZ; DE; DK; DM; DZ; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU;  
ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD;  
MG; MK; MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM;  
TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ;  
TM; DESIGNATED REGIONAL: GH; GM; KE; LS; MW; SD; SL; SZ; TZ; UG; ZW; AT; BE;  
; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ;  
CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG

37/3, K/41 (Item 35 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

133265640 CA: 133(19)265640e PATENT

Bacterial polysaccharide antigen vaccine

INVENTOR(AUTHOR): Capi au, Carine; Deschamps, Marguerite; Desmons, Pierre  
Michel; Laferriere, Craig Antony Joseph; Poolman, Jan; Prieels, Jean-paul

LOCATION: Belg.

ASSIGNEE: Smithkline Beecham Biologicals S.A.

PATENT: PCT International ; WO 200056360 A2 DATE: 20000928

APPLICATION: WO 2000EP2468 (20000317) \*GB 996437 (19990319) \*GB 999077  
(19990420) \*GB 999466 (19990423) \*GB 9916677 (19990715)

PAGES: 79 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-039/385A; A61K-039/39B; A61K-039/02B; A61K-039/005B;

A61K-039/116B; A61P-031/04B

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; CA;  
CH; CN; CR; CU; CZ; DE; DK; DM; DZ; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU;  
ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD;  
MG; MK; MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM;  
TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ;  
TM; DESIGNATED REGIONAL: GH; GM; KE; LS; MW; SD; SL; SZ; TZ; UG; ZW; AT; BE;  
; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ;

CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG

37/3, K/42 (Item 36 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

132075770 CA: 132(7)75770d JOURNAL

The genetic basis of the phase variation repertoire of lipopolysaccharide immunotypes in *Neisseria meningitidis*

AUTHOR(S): Jennings, Michael P.; Srikhanta, Yogitha N.; Moxon, E. Richard; Kramer, Marco; Poolman, Jan T.; Kuipers, Betsy; Van der Ley, Peter

LOCATION: Department of Microbiology and Parasitology, University of Queensland, Brisbane, 4072, Australia

JOURNAL: Microbiology (Reading, U. K.) DATE: 1999 VOLUME: 145 NUMBER:

11 PAGES: 3013-3021 CODEN: MROBEO ISSN: 1350-0872 LANGUAGE: English

PUBLISHER: Society for General Microbiology

37/3, K/43 (Item 37 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

132021928 CA: 132(3)21928t JOURNAL

Immunogenicity of various presentation forms of PorA outer membrane protein of *Neisseria meningitidis* in mice

AUTHOR(S): Peeters, Carla C. A. M.; Claassen, Ivo J. T. M.; Schuller, Margje; Kersten, Gideon F. A.; Van der Voort, Eileene M. Rouppe; Poolman, Jan T.

LOCATION: Laboratory for Vaccine development and Immune Mechanisms, National Institute of Public Health and Environment, 1, 3720 BA, Bilthoven, Neth.

JOURNAL: Vaccine DATE: 1999 VOLUME: 17 NUMBER: 20-21 PAGES: 2702-2712

CODEN: VACCDE ISSN: 0264-410X PUBLISHER ITEM IDENTIFIER:

0264-410X(99)00011-0 LANGUAGE: English PUBLISHER: Elsevier Science Ltd.

37/3, K/44 (Item 38 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

131072565 CA: 131(6)72565j JOURNAL

Cellular immune responses to *Neisseria meningitidis* in children

AUTHOR(S): Pollard, Andrew J.; Galassini, Rachel; Van Der Voort, Eileene M. Rouppe; Hibberd, Martin; Booy, Robert; Langford, Paul; Nadel, Simon; Ison, Catherine; Kroll, J. Simon; Poolman, Jan; Levin, Michael

LOCATION: Paediatric Infectious Diseases Unit, Imperial College School of Medicine, St. Mary's Hospital, Norfolk Place, London, UK, W2 1PG

JOURNAL: Infect. Immun. DATE: 1999 VOLUME: 67 NUMBER: 5 PAGES:

2452-2463 CODEN: INFI BR ISSN: 0019-9567 LANGUAGE: English PUBLISHER: American Society for Microbiology

37/3, K/45 (Item 39 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

131072478 CA: 131(6)72478h JOURNAL

Humoral immune responses to *Neisseria meningitidis* in children

AUTHOR(S): Pollard, Andrew J.; Galassini, Rachel; Van Der Voort, Eileene M. Rouppe; Booy, Robert; Langford, Paul; Nadel, Simon; Ison, Catherine; Kroll, J. Simon; Poolman, Jan; Levin, Michael

LOCATION: Paediatric Infectious Diseases Unit, Imperial College School of

Medicine, St. Mary's Hospital, Norfolk Place, London, UK, V0 1PG  
 JOURNAL: Infect. Immun. DATE: 1999 VOLUME: 67 NUMBER: 5 PAGES:  
 2441-2451 CODEN: INFI BR ISSN: 0019-9567 LANGUAGE: English PUBLISHER:  
 American Society for Microbiology

37/3, K/46 (Item 40 from file: 399)  
 DI ALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rts. reserv.

128060467 CA: 128(6)60467d JOURNAL  
 Human B- and T-cell responses after immunization with a hexavalent PorA  
 meningococcal outer membrane vesicle vaccine  
 AUTHOR(S): Van der Voort, Eileene Rouppe; Van Dijken, Harry; Kuipers,  
 Betsy; Van der Biezen, Jenny; Van der Ley, Peter; Meylis, Jolanda;  
 Claassen, Ivo; Poolman, Jan  
 LOCATION: Laboratory of Vaccine Development and Immune Mechanisms,  
 National Institute of Public Health and the Environment, Bilthoven, Neth.  
 JOURNAL: Infect. Immun. DATE: 1997 VOLUME: 65 NUMBER: 12 PAGES:  
 5184-5190 CODEN: INFI BR ISSN: 0019-9567 LANGUAGE: English PUBLISHER:  
 American Society for Microbiology

37/3, K/47 (Item 41 from file: 399)  
 DI ALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rts. reserv.

127291839 CA: 127(21)291839x JOURNAL  
 Bactericidal antibody recognition of a PorA epitope of Neisseria  
 meningitidis: crystal structure of a Fab fragment in complex with a  
 fluorescein-conjugated peptide  
 AUTHOR(S): van den Elsen, Jean M. H.; Herron, James N.; Hoogerhout, Peter  
 ; Poolman, Jan T.; Boel, Edwin; Logtenberg, Ton; Wiltig, Jaap; Crommelin,  
 Daan J. A.; Kroon, Jan; Gros, Piet  
 LOCATION: Department of Pharmaceutics, Faculty of Pharmacy, Utrecht  
 Institute of Pharmaceutical Sciences, Utrecht University, 3584 CH, Utrecht,  
 Neth.  
 JOURNAL: Proteins: Struct., Funct., Genet. DATE: 1997 VOLUME: 29  
 NUMBER: 1 PAGES: 113-125 CODEN: PSFGEY ISSN: 0887-3585 LANGUAGE:  
 English PUBLISHER: Wiley-Liss

37/3, K/48 (Item 42 from file: 399)  
 DI ALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rts. reserv.

127064218 CA: 127(5)64218a JOURNAL  
 On the interaction between a bactericidal antibody and a PorA epitope of  
 Neisseria meningitidis in outer membrane vesicles: a competitive  
 fluorescence polarization immunoassay  
 AUTHOR(S): van den Elsen, Jean M. H.; van Pommere, Erik; Poolman, Jan T.;  
 Wiltig, Jaap; Herron, James N.; Crommelin, Daan J. A.  
 LOCATION: Dep. Pharmaceutics, Utrecht Inst. Pharmaceutical Sci., Utrecht  
 Univ., 3584, Utrecht, Neth.  
 JOURNAL: Anal. Biochem. DATE: 1997 VOLUME: 247 NUMBER: 2 PAGES:  
 382-388 CODEN: ANBCA2 ISSN: 0003-2697 LANGUAGE: English PUBLISHER:  
 Academic

37/3, K/49 (Item 43 from file: 399)  
 DI ALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rts. reserv.

10523114HSFTBP.txt

126339433 CA: 126(26)339433u JOURNAL

Isolation and characterization of the *Neisseria meningitidis* lpxD-fabZ-lpxA gene cluster involved in lipid A biosynthesis

AUTHOR(S): Steeghs, Liana; Jennings, Michael P.; Poolman, Jan T.; van der Ley, Peter

LOCATION: Laboratory of Vaccine Development and Immune Mechanisms, National Institute of Public Health and the Environment, Antonie van Leeuwenhoeklaan 9, P.O. Box 1, 3720, BA Bilthoven, Neth.

JOURNAL: Gene DATE: 1997 VOLUME: 190 NUMBER: 2 PAGES: 263-270

CODEN: GENED6 ISSN: 0378-1119 PUBLISHER ITEM IDENTIFIER: 0378-1119(97)00005-X LANGUAGE: English PUBLISHER: Elsevier

37/3, K/50 (Item 44 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

126276097 CA: 126(21)276097q JOURNAL

Epitope specificity of murine and human bactericidal antibodies against PorA P1.7, 16 induced with experimental meningococcal group B vaccines

AUTHOR(S): Rouppe van der Voort, Eileene M.; Kuipers, Betsy; Brugghe, Humphrey F.; van Unen, Leontine M. A.; Timmermans, Hans A. M.; Hoogerhout, Peter; Poolman, Jan T.

LOCATION: Laboratory of Vaccine Development and Immune Mechanisms, National Institute of Public Health and the Environment, Laboratory of Vaccine Development and Immune Mechanisms (LVM), P.O. Box 1, 3720, BA Bilthoven, Neth.

JOURNAL: FEMS Immunol. Med. Microbiol. DATE: 1997 VOLUME: 17 NUMBER: 3 PAGES: 139-148 CODEN: FIMEV ISSN: 0928-8244 LANGUAGE: English

PUBLISHER: Elsevier

37/3, K/51 (Item 45 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

126183541 CA: 126(14)183541q JOURNAL

Response of *Neisseria meningitidis* to iron limitation

AUTHOR(S): Pettersson, Annika; Poolman, Jan T.; Van Der Ley, Peter; Tomassen, Jan

LOCATION: Department of Molecular Cell Biology and Institute of Biomembranes, Utrecht University, 3584 CH, Utrecht, Neth.

JOURNAL: Antonie van Leeuwenhoek DATE: 1997 VOLUME: 71 NUMBER: 1-2

PAGES: 129-136 CODEN: ALJMAO ISSN: 0003-6072 LANGUAGE: English

PUBLISHER: Kluwer

37/3, K/52 (Item 46 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

126101506 CA: 126(8)101506v JOURNAL

Sequence variability of FrpB, a major iron-regulated outer-membrane protein in the pathogenic neisseriae

AUTHOR(S): van der Ley, Peter; van der Biezen, Jenny; Stumiller, Roger; Hoogerhout, Peter; Poolman, Jan T.

LOCATION: Lab. Accine Dev. Immune Mechanisms, Natl. Inst. Public Health Environ., 3720 BA, Bilthoven, Neth.

JOURNAL: Microbiology (Reading, U. K.) DATE: 1996 VOLUME: 142 NUMBER: 11 PAGES: 3269-3274 CODEN: MROBEO ISSN: 1350-0872 LANGUAGE: English

PUBLISHER: Society for General Microbiology

37/3, K/53 (Item 47 from file: 399)  
 DIALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rights reserved.

126100085 CA: 126(8)100085v JOURNAL  
 Analysis of the icsBA locus required for biosynthesis of the inner core  
 region from *Neisseria meningitidis* lipopolysaccharide  
 AUTHOR(S): van der Ley, Peter; Kramer, Marco; Martin, Adele; Richards,  
 James C.; Poolman, Jan T.  
 LOCATION: Laboratory of Vaccine Development and Immune Mechanisms,  
 National Institute of Public Health and the Environment, 3720 BA, Bilthoven,  
 Neth.  
 JOURNAL: FEMS Microbiol. Lett. DATE: 1997 VOLUME: 146 NUMBER: 2  
 PAGES: 247-253 CODEN: FMLED7 ISSN: 0378-1097 LANGUAGE: English  
 PUBLISHER: Elsevier

37/3, K/54 (Item 48 from file: 399)  
 DIALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rights reserved.

125055826 CA: 125(5)55826d JOURNAL  
 Specificity of human bactericidal antibodies against PorA P1.7, 16 induced  
 with a hexavalent meningococcal outer membrane vesicle vaccine  
 AUTHOR(S): van der Voort, Eileene Rouppe; van der Ley, Peter; van der  
 Biezen, Jenny; George, Stephen; Tunnela, Outi; van Dijken, Harry; Kuipers,  
 Betsy; Poolman, Jan  
 LOCATION: Lab. Vaccine Development Immune Mechanisms, Natl. Inst. Public  
 Health and Environment, Bilthoven, Neth.  
 JOURNAL: Infect. Immun. DATE: 1996 VOLUME: 64 NUMBER: 7 PAGES:  
 2745-2751 CODEN: INFI BR ISSN: 0019-9567 LANGUAGE: English

37/3, K/55 (Item 49 from file: 399)  
 DIALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rights reserved.

124340417 CA: 124(25)340417g JOURNAL  
 Quil A, anti-carbohydrate antibody specificity and biological function  
 AUTHOR(S): Snippe, H.; Alonso de Velasco, E.; Verheul, A. F. M.; Poolman,  
 J. T.  
 LOCATION: Eijkman-Winkler Institute for Medical and Clinical Microbiology,  
 Utrecht University, 3584 CX, Utrecht, Neth.  
 JOURNAL: NATO ASI Ser., Ser. A DATE: 1995 VOLUME: 282 NUMBER:  
 Vaccines: New Generation Immunological Adjuvants PAGES: 25-33 CODEN:  
 NALSDJ ISSN: 0258-1213 LANGUAGE: English

37/3, K/56 (Item 50 from file: 399)  
 DIALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rights reserved.

124252269 CA: 124(19)252269e JOURNAL  
 Identification of a locus involved in meningococcal lipopolysaccharide  
 biosynthesis by deletion mutagenesis  
 AUTHOR(S): van der Ley, Pete; Kramer, Marco; Steeghs, Liana; Kuipers,  
 Betsy; Andersen, Svein R.; Jennings, Michael P.; Moxon, E. Richard;  
 Poolman, Jan T.  
 LOCATION: Lab. Vaccine Development and Immune Mechanisms, Natl. Inst.  
 Public Health and Environmental Protection, 3720 BA, Bilthoven, Neth.  
 JOURNAL: Mol. Microbiol. DATE: 1996 VOLUME: 19 NUMBER: 5 PAGES:  
 1117-25 CODEN: MOMEE ISSN: 0950-382X LANGUAGE: English

37/3, K/57 (Item 51 from file: 399)  
 DI ALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rts. reserv.

123134286 CA: 123(11)134286q JOURNAL  
 Construction of *Neisseria meningitidis* strains carrying multiple  
 chromosomal copies of the *porA* gene for use in the production of a  
 multivalent outer membrane vesicle vaccine  
 AUTHOR(S): Ley, Peter van der; Biezen, Jenny van der; Poolman, Jan T.  
 LOCATION: National Institute Public Health and Environmental Protection,  
 3720 BA, Bilthoven, Neth.  
 JOURNAL: Vaccine DATE: 1995 VOLUME: 13 NUMBER: 4 PAGES: 401-7  
 CODEN: VACCDE ISSN: 0264-410X LANGUAGE: English

37/3, K/58 (Item 52 from file: 399)  
 DI ALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rts. reserv.

123048814 CA: 123(5)48814d JOURNAL  
 Molecular characterization of the structural gene for the lactoferrin  
 receptor of the meningococcal strain H44/76.  
 AUTHOR(S): Pettersson, Annika; Klarenbeek, Vincent; van Deurzen, Jolanda;  
 Poolman, Jan T.; Tomassen, Jan  
 LOCATION: Department of Molecular Cell Biology, Utrecht University, 3584  
 CH, Utrecht, Neth.  
 JOURNAL: Microb. Pathog. DATE: 1994 VOLUME: 17 NUMBER: 6 PAGES:  
 395-408 CODEN: MPAEV ISSN: 0882-4010 LANGUAGE: English

37/3, K/59 (Item 53 from file: 399)  
 DI ALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rts. reserv.

122311473 CA: 122(25)311473a JOURNAL  
 Cloning and molecular analysis of the *galE* gene of *Neisseria meningitidis*  
 and its role in lipopolysaccharide biosynthesis  
 AUTHOR(S): Jennings, Michael P.; Ley, Peter Van Der; Wilks, Kathy E.;  
 Maskell, Duncan J.; Poolman, Jan T.; Moxon, Richard E.  
 LOCATION: Institute Molecular Medicine, John Radcliffe Hospital,  
 Headington/Oxford, UK, OX3 9DU  
 JOURNAL: Ann. N. Y. Acad. Sci. DATE: 1994 VOLUME: 730 NUMBER:  
 MICROBIAL PATHOGENESIS AND IMMUNE RESPONSE PAGES: 252-4 CODEN: ANYAA9  
 ISSN: 0077-8923 LANGUAGE: English

37/3, K/60 (Item 54 from file: 399)  
 DI ALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rts. reserv.

121238310 CA: 121(20)238310t JOURNAL  
 Non-specific modulation of the immune response with liposomal  
 meningococcal lipopolysaccharide: role of different cells and cytokines  
 AUTHOR(S): Petrov, Alexander B.; Kolenko, Vladimir M.; Koshkina, Nadezhda  
 V.; Zakirov, Muxim M.; Bugaev, Lev V.; Semenova, Irina B.; Wertz, Emmanuel  
 J. H. J.; Poolman, Jan T.  
 LOCATION: Mechnikov Research Institute for Vaccines and Sera, Moscow,  
 Russia, 103064  
 JOURNAL: Vaccine DATE: 1994 VOLUME: 12 NUMBER: 12 PAGES: 1064-70  
 CODEN: VACCDE ISSN: 0264-410X LANGUAGE: English



37/3, K/61 (Item 55 from file: 399)  
 DIALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rts. reserv.

121228043 CA: 121(19)228043u CONFERENCE PROCEEDING  
 Development of outer membrane protein-lipopolysaccharide-based vaccines  
 against group-B meningococci  
 AUTHOR(S): Poolman, Jan T.; van der Ley, Peter A.; Peeters, Carla C. A.  
 M.; Werta, Emmanuel J. H. J.; Hoogerhout, Peter; Claassen, Ivo J. T. M.  
 LOCATION: Lab. Vaccine Dev., RIVM, 3720, Bilthoven, Neth.  
 JOURNAL: Vaccines 94: Mod. Approaches New Vaccines Incl. Prev. AIDS,  
 (Annu. Meet.), 11th EDITOR: Norrby, Erling (Ed), DATE: 1994 PAGES:  
 137-40 CODEN: 60PMAJ LANGUAGE: English MEETING DATE: 930000 PUBLISHER:  
 Cold Spring Harbor Lab. Press, Cold Spring Harbor, N.Y.

37/3, K/62 (Item 56 from file: 399)  
 DIALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rts. reserv.

121078188 CA: 121(7)78188d PATENT  
 Immunogenic meningococcal lipopolysaccharides and outer membrane vesicles  
 and vaccines derived from them  
 INVENTOR(AUTHOR): Van Der Ley, Peter Andre; Poolman, Jan Theunis;  
 Hoogerhout, Peter  
 LOCATION: Neth.  
 ASSIGNEE: De Staat der Nederlanden, Vertegenwoordigd Door de Minister van  
 Welzijn, k  
 PATENT: PCT International ; WO 9408021 A1 DATE: 940414  
 APPLICATION: WO 93NL163 (930730) \*NL 921716 (921002)  
 PAGES: 62 pp. CODEN: PIXXD2 LANGUAGE: English  
 PATENT CLASSIFICATIONS:  
 CLASS: C12N-015/61A; A61K-039/095B; C08B-037/00B; C12P-019/04B;  
 C07K-009/00B; C12N-015/31B; C12N-001/21B; C07K-015/00B; C12N-001/21J;  
 C12R-001/36J  
 DESIGNATED COUNTRIES: AT; AU; BB; BG; BR; BY; CA; CH; CZ; DE; DK; ES; FI;  
 GB; HU; JP; KP; KR; KZ; LK; LU; MG; MN; MW; NL; NO; NZ; PL; PT; RO; RU; SD;  
 SE; SK; UA; US; VN DESIGNATED REGIONAL: AT; BE; CH; DE; DK; ES; FR; GB; GR  
 ; IE; IT; LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN; ML; MR; NE;  
 SN; TD; TG

37/3, K/63 (Item 57 from file: 399)  
 DIALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rts. reserv.

120160967 CA: 120(13)160967v JOURNAL  
 Molecular characterization of the 98-kilodalton iron-regulated outer  
 membrane protein of Neisseria meningitidis  
 AUTHOR(S): Pettersson, Annika; van der Ley, Peter; Poolman, Jan T.;  
 Tomassen, Jan  
 LOCATION: Inst. Biomembr., Utrecht Univ., 3584 CH, Utrecht, Neth.  
 JOURNAL: Infect. Immun. DATE: 1993 VOLUME: 61 NUMBER: 11 PAGES:  
 4724-33 CODEN: INFI BR ISSN: 0019-9567 LANGUAGE: English

37/3, K/64 (Item 58 from file: 399)  
 DIALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rts. reserv.

119268459 CA: 119(25)268459z JOURNAL  
 Use of transformation to construct antigenic hybrids of the class 1 outer  
 membrane protein in Neisseria meningitidis

AUTHOR(S): van der Ley, Peter; van der Biezen, Jenny; Hohenstein, Peter; Peeters, Carla; Poolman, Jan T.

LOCATION: Natl. Inst. Public Health Environ. Prote., 3720 BA, Bilthoven, Neth.

JOURNAL: Infect. Immun. DATE: 1993 VOLUME: 61 NUMBER: 10 PAGES: 4217-24 CODEN: INFI BR ISSN: 0019-9567 LANGUAGE: English

37/3, K/65 (Item 59 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

119080197 CA: 119(8)80197h PATENT

Saccharide-peptide conjugate, its preparation and use in vaccine against gram negative bacteria

INVENTOR(AUTHOR): Hoogerhout, Peter; Poolman, Jan Theunis; Wertz, Jacques Henri; van Boom, Jacques Hubertus; van der Marel, Gysbert Arie; Boons, Gerardus Josephus Petrus

LOCATION: Neth.

ASSIGNEE: Minister van Welzijn, Volksgezondheid en Cultuur

PATENT: Netherlands Appl. ; NL 9101359 A DATE: 930301

APPLICATION: NL 911359 (910807)

PAGES: 45 pp. CODEN: NAXXAN LANGUAGE: Netherlands

PATENT CLASSIFICATIONS:

CLASS: A61K-039/02A; A61K-039/095B; C07K-017/10B; C08B-037/00B; C08H-001/00B

37/3, K/66 (Item 60 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

119069941 CA: 119(7)69941a JOURNAL

Microheterogeneity in the recognition of a HLA-DR2-restricted T cell epitope from a meningococcal outer membrane protein

AUTHOR(S): Wertz, Emmanuel; Van Gaans-Van den Brink, Jacqueline; Hoogerhout, Peter; Poolman, Jan

LOCATION: Natl. Inst. Public Health Environ., 3720 BA, Bilthoven, Neth.

JOURNAL: Eur. J. Immunol. DATE: 1993 VOLUME: 23 NUMBER: 1 PAGES: 232-9 CODEN: EJIMAF ISSN: 0014-2980 LANGUAGE: English

37/3, K/67 (Item 61 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

119067447 CA: 119(7)67447v JOURNAL

The lipooligosaccharide immunotype as a virulence determinant in *Neisseria meningitidis*

AUTHOR(S): Jones, Dennis M; Borrow, Raymond; Fox, Andrew J.; Gray, Stephen; Cartwright, Keith A; Poolman, Jan T.

LOCATION: Manchester Public Health Lab., Withington Hosp., Manchester, UK, M20 8LR

JOURNAL: Microb. Pathog. DATE: 1992 VOLUME: 13 NUMBER: 3 PAGES: 219-24 CODEN: MPAEV ISSN: 0882-4010 LANGUAGE: English

37/3, K/68 (Item 62 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

118076965 CA: 118(9)76965u JOURNAL

Clonal and antigenic analysis of serogroup A *Neisseria meningitidis* with

10523114HSFTBP.txt

particular reference to epidemiological features of epidemic meningitis in the People's Republic of China

AUTHOR(S): Wang, Jian Fu; Caugant, Dominique A.; Li, Xinwu; Hu, Xujing; Poolman, Jan T.; Crowe, Brian A.; Achtman, Mark  
LOCATION: Max-Planck Inst. Mol. Genet., Berlin, Germany, DW 1000/33  
JOURNAL: Infect. Immun. DATE: 1992 VOLUME: 60 NUMBER: 12 PAGES: 5267-82 CODEN: INFI BR ISSN: 0019-9567 LANGUAGE: English

37/3, K/69 (Item 63 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

118020553 CA: 118(3)20553r JOURNAL

Construction of a multivalent meningococcal vaccine strain based on the class 1 outer membrane protein

AUTHOR(S): Van der Ley, Peter; Poolman, Jan T.

LOCATION: Natl. Inst. Public Health Environ. Prot., 3720 BA, Bilthoven, Neth.

JOURNAL: Infect. Immun. DATE: 1992 VOLUME: 60 NUMBER: 8 PAGES: 3156-61 CODEN: INFI BR ISSN: 0019-9567 LANGUAGE: English

37/3, K/70 (Item 64 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

117109653 CA: 117(11)109653a JOURNAL

Identification of T cell epitopes occurring in a meningococcal class 1 outer membrane protein using overlapping peptides assembled with simultaneous multiple peptide synthesis

AUTHOR(S): Wertz, Emmanuel J. H. J.; Van Gaans-Van den Brink, Jacqueline A. M.; Gausepohl, Heinrich; Prochnicka-Chalufour, Ada; Hoogerhout, Peter; Poolman, Jan T.

LOCATION: Natl. Inst. Public Health Environ. Prot., 3720 BA, Bilthoven, Neth.

JOURNAL: J. Exp. Med. DATE: 1992 VOLUME: 176 NUMBER: 1 PAGES: 79-88 CODEN: JEMEA V ISSN: 0022-1007 LANGUAGE: English

37/3, K/71 (Item 65 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

117022939 CA: 117(3)22939z JOURNAL

Topology of outer membrane porins in pathogenic *Neisseria* spp

AUTHOR(S): Van der Ley, Peter; Heckels, John E.; Virji, Muntaz; Hoogerhout, Peter; Poolman, Jan T.

LOCATION: Natl. Inst. Public Health Environ. Prot., 3720 BA, Bilthoven, Neth.

JOURNAL: Infect. Immun. DATE: 1991 VOLUME: 59 NUMBER: 9 PAGES: 2963-71 CODEN: INFI BR ISSN: 0019-9567 LANGUAGE: English

37/3, K/72 (Item 66 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

116039313 CA: 116(5)39313t JOURNAL

The influence of the adjuvant Quil A on the epitope specificity of meningococcal lipopolysaccharide anti-carbohydrate antibodies

AUTHOR(S): Verheul, Andre F. M.; Poolman, Jan T.; Snippe, Harm; Verhoef, Jan

10523114HSFTBP.txt

LOCATION: Dep. Exp. Microbiol., Utrecht Univ., NL-3584 CX, Utrecht, Neth.  
JOURNAL: Mol. Immunol. DATE: 1991 VOLUME: 28 NUMBER: 11 PAGES:  
1193-200 CODEN: MOIMD5 ISSN: 0161-5890 LANGUAGE: English

37/3, K/73 (Item 67 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

116019384 CA: 116(3)19384p JOURNAL

T cell recognition of *Neisseria meningitidis* class 1 outer membrane proteins. Identification of T cell epitopes with selected synthetic peptides and determination of HLA restriction elements

AUTHOR(S): Wertz, Emmanuel J. H. J.; Van Gaans-Van den Brink, Jacqueline A. M.; Schreuder, Gezi ena M. T. H.; Termijt elen, Annemarie A. M.; Hoogerhout, Peter; Poolman, Jan T.

LOCATION: Natl. Inst. Public Health Environ. Protect., 3720 BA, Bilthoven, Neth.

JOURNAL: J. Immunol. DATE: 1991 VOLUME: 147 NUMBER: 6 PAGES: 2012-18  
CODEN: JOIM A3 ISSN: 0022-1767 LANGUAGE: English

37/3, K/74 (Item 68 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

116004793 CA: 116(1)4793x JOURNAL

Effect of carrier priming on immunogenicity of saccharide-protein conjugate vaccines

AUTHOR(S): Peeters, Carla C. A. M.; Tenbergen-Meekes, Anne Marie; Poolman, Jan T.; Beurret, Michel; Zegers, Ben J. M.; Rijkers, Ger T.

LOCATION: Dep. Immunol., Univ. Hosp. Child. Youth, 3501 CA, Utrecht, Neth.

JOURNAL: Infect. Immun. DATE: 1991 VOLUME: 59 NUMBER: 10 PAGES: 3504-10  
CODEN: INFI BR ISSN: 0019-9567 LANGUAGE: English

37/3, K/75 (Item 69 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

115112260 CA: 115(11)112260j CONFERENCE PROCEEDING

Mapping of human T-cell epitopes, occurring in the meningococcal class 1 outer membrane protein

AUTHOR(S): Wertz, Emmanuel J. H. J.; Van Gaans, Jacqueline A. M.; Hoogerhout, Peter; Seid, Robert C., Jr.; Heckels, John E.; Schreuder, Gezi ena M. T.; Poolman, Jan T.

LOCATION: Natl. Inst. Public Health and Environ. Protect., 3720 BA, Bilthoven, Neth.

JOURNAL: Pept.: Chem. Struct. Biol., Proc. Am. Pept. Symp., 11th  
EDITOR: Rivier, Jean E. (Ed), Marshall, Garland R. (Ed), DATE: 1990  
PAGES: 731-2 CODEN: 56XTA7 LANGUAGE: English MEETING DATE: 890000  
PUBLISHER: ESCOM Sci. Pub., Leiden, Neth

37/3, K/76 (Item 70 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

114141403 CA: 114(15)141403t PATENT

Meningococcal class 1 outer-membrane protein vaccine

INVENTOR(AUTHOR): Seid, Robert C., Jr.; Paradiso, Peter R.; Poolman, Jan T.; Hoogerhout, Peter; Wertz, Emmanuel J. H. J.; Van der Ley, Peter;

Heckels, John Edward; Clarke, Ian Nicholas

LOCATION: USA

ASSIGNEE: Praxis Biologics, Inc.; Rijksinstituut voor Volksgezondheid en Milieuhygiene

PATENT: PCT International ; WO 9006696 A2 DATE: 900628

APPLICATION: WO 89US5678 (891219) \*NL 883111 (881219) \*NL 8930 (890106)

\*NL 891612 (890626)

PAGES: 121 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A31K-039/095; C07K-013/00; C07K-007/04; A61K-039/39; A61K-039/385; C12N-015/31; C12N-015/62; C12R-001/36

DESIGNATED COUNTRIES: AU; DK; FI; JP; NO; US DESIGNATED REGIONAL: AT; BE; CH; DE; ES; FR; GB; IT; LU; NL; SE

37/3, K/77 (Item 71 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

113229202 CA: 113(25)229202s JOURNAL

Monoclonal antibodies against the 70-kilodalton iron-regulated protein of *Neisseria meningitidis* are bactericidal and strain specific

AUTHOR(S): Petterson, Annika; Kuipers, Betsy; Pelzer, Marga; Verhagen, Elly; Tiesjema, Rudy H.; Tommassen, Jan; Poolman, Jan T.

LOCATION: Lab. Bacter. Vaccines, Natl. Inst. Public Health Environ. Prot., 3720 BA, Bilthoven, Neth.

JOURNAL: Infect. Immun. DATE: 1990 VOLUME: 58 NUMBER: 9 PAGES: 3036-41 CODEN: INFI BR ISSN: 0019-9567 LANGUAGE: English

37/3, K/78 (Item 72 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

113150210 CA: 113(17)150210j JOURNAL

Deduced amino acid sequences of class 1 protein (PorA) from three strains of *Neisseria meningitidis*. Synthetic peptides define the epitopes responsible for serosubtype specificity

AUTHOR(S): McGuinness, Brian; Barlow, Ann K.; Clarke, Ian N.; Farley, John E.; Anilionis, Algis; Poolman, Jan T.; Heckels, John E.

LOCATION: Med. Sch., Univ. Southampton, Southampton, UK, SO9 4XY

JOURNAL: J. Exp. Med. DATE: 1990 VOLUME: 171 NUMBER: 6 PAGES: 1871-82 CODEN: JEMEA V ISSN: 0022-1007 LANGUAGE: English

37/3, K/79 (Item 73 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

113055510 CA: 113(7)55510y JOURNAL

Isolation of *Neisseria meningitidis* mutants deficient in class 1 (PorA) and class 3 (PorB) outer membrane proteins

AUTHOR(S): Tommassen, Jan; Vermeij, Paul; Struyve, Marlies; Benz, Roland; Poolman, Jan T.

LOCATION: Inst. Mol. Biol. Med. Biotechnol., State Univ. Utrecht, 3584 CH, Utrecht, Neth.

JOURNAL: Infect. Immun. DATE: 1990 VOLUME: 58 NUMBER: 5 PAGES: 1355-9 CODEN: INFI BR ISSN: 0019-9567 LANGUAGE: English

37/3, K/80 (Item 74 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

110151020 CA: 110(17)151020x JOURNAL  
Purification, cyanogen bromide cleavage, and amino terminus sequencing of  
class 1 and class 3 outer membrane proteins of meningococci  
AUTHOR(S): Poolman, Jan T.; Timmermans, Hans A. M.; Teerlink, Tom; Seid,  
Robert C., Jr.  
LOCATION: Dep. Bact. Vaccine Dev., Natl. Inst. Public Health Environ.  
Prot., Bilthoven, Neth.  
JOURNAL: Infect. Immun. DATE: 1989 VOLUME: 57 NUMBER: 3 PAGES: 1005-7  
CODEN: INFI BR ISSN: 0019-9567 LANGUAGE: English

37/3, K/81 (Item 75 from file: 399)  
DIALOG(R) File 399: CA SEARCH(R)  
(c) 2010 American Chemical Society. All rights reserved.

109168547 CA: 109(19)168547b JOURNAL  
Electromorphic characterization and description of conserved epitopes of  
the lipooligosaccharides of group A *Neisseria meningitidis*  
AUTHOR(S): Kim, Janice J.; Mandrell, Robert E.; Hu, Zhen; Westerink, M  
A. Julie; Poolman, Jan T.; Griffiss, McLeod  
LOCATION: Cent. Immunochem, Univ. California, San Francisco, CA, 94143,  
USA  
JOURNAL: Infect. Immun. DATE: 1988 VOLUME: 56 NUMBER: 10 PAGES:  
2631-8 CODEN: INFI BR ISSN: 0019-9567 LANGUAGE: English

37/3, K/82 (Item 76 from file: 399)  
DIALOG(R) File 399: CA SEARCH(R)  
(c) 2010 American Chemical Society. All rights reserved.

109147592 CA: 109(17)147592x JOURNAL  
Monoclonal antibodies to the rough lipopolysaccharide of *Neisseria*  
*meningitidis* protect infant rats from meningococcal infection  
AUTHOR(S): Saukkonen, Kirsi; Leinonen, Maija; Kayhty, Helena; Abdillahi,  
Hussein; Poolman, Jan T.  
LOCATION: Natl. Public Health Inst., Helsinki, Finland  
JOURNAL: J. Infect. Dis. DATE: 1988 VOLUME: 158 NUMBER: 1 PAGES:  
209-12 CODEN: JIDIAQ ISSN: 0022-1899 LANGUAGE: English

37/3, K/83 (Item 77 from file: 399)  
DIALOG(R) File 399: CA SEARCH(R)  
(c) 2010 American Chemical Society. All rights reserved.

108053934 CA: 108(7)53934n JOURNAL  
Protective efficacy of monoclonal antibodies to class 1 and class 3 outer  
membrane proteins of *Neisseria meningitidis* B:15:P1.16 in infant rat  
infection model: new prospects for vaccine development  
AUTHOR(S): Saukkonen, Kirsi; Abdillahi, Hussein; Poolman, Jan T.;  
Leinonen, Maija  
LOCATION: Natl. Public Health Inst., SF-00280, Helsinki, Finland  
JOURNAL: Microb. Pathog. DATE: 1987 VOLUME: 3 NUMBER: 4 PAGES: 261-7  
CODEN: MPAEV ISSN: 0882-4010 LANGUAGE: English

37/3, K/84 (Item 78 from file: 399)  
DIALOG(R) File 399: CA SEARCH(R)  
(c) 2010 American Chemical Society. All rights reserved.

104166503 CA: 104(19)166503g CONFERENCE PROCEEDING  
Proposed scheme for identification of serotypes of *Neisseria meningitidis*  
AUTHOR(S): Frasch, Carl E.; Zollinger, Wendell D.; Poolman, Jan T.

10523114HSFTBP.txt

LOCATION: Div. Bact. Prod., Cent. Drugs Biol., Bethesda, MD, 20205, USA  
JOURNAL: Pathog. Neisseriae, Proc. Int. Symp., 4th EDITOR: Schoolnik,  
Gary K (Ed), DATE: 1985 PAGES: 519-24 CODEN: 54ZAAE LANGUAGE: English  
MEETING DATE: 840000 PUBLISHER: Am Soc. Microbiol., Washington, D. C

37/3, K/85 (Item 79 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

104105821 CA: 104(13)105821n CONFERENCE PROCEEDING

Influence of the length of lipopolysaccharide molecules on the surface  
exposure of class 1 and 2 outer membrane proteins of *Neisseria*  
*meningitidis* 2996 (B:2b:P1.2)

AUTHOR(S): Poolman, Jan T.; Wentjes, Frans B.; Hopman, Carla T. P.;  
Zanen, H. C.

LOCATION: Lab. Med. Microbiol., Univ. Amsterdam 1105 AZ, Amsterdam  
Neth.

JOURNAL: Pathog. Neisseriae, Proc. Int. Symp., 4th EDITOR: Schoolnik,  
Gary K (Ed), DATE: 1985 PAGES: 562-70 CODEN: 54ZAAE LANGUAGE: English  
MEETING DATE: 840000 PUBLISHER: Am Soc. Microbiol., Washington, D. C

37/3, K/86 (Item 80 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

102130006 CA: 102(15)130006s JOURNAL

Monoclonal antibody activity against native and denatured forms of  
gonococcal outer membrane proteins as detected within ultrathin,  
longitudinal slices of polyacrylamide gels

AUTHOR(S): Poolman, Jan T.; Buchanan, Thomas M

LOCATION: Immunol. Res. Lab., Pac. Med. Cent., Seattle, WA, 98114, USA

JOURNAL: J. Immunol. Methods DATE: 1984 VOLUME: 75 NUMBER: 2 PAGES:  
265-74 CODEN: JIMMBG ISSN: 0022-1759 LANGUAGE: English

37/3, K/87 (Item 1 from file: 149)

DIALOG(R) File 149: TGG Health&Wellness DB(SM)

(c) 2010 Gale/Cengage. All rights reserved.

01394621 SUPPLIER NUMBER: 13913418

Meningococcal lipopolysaccharides: virulence factor and potential vaccine  
component

Verhuel, A. F. M.; Snippe, H.; Poolman, J. T.

Microbiological Reviews, v57, n1, p34(15)

March,

1993

PUBLICATION FORMAT: Magazine/Journal ISSN: 0146-0749 LANGUAGE: English

RECORD TYPE: Abstract TARGET AUDIENCE: Academic

... Poolman, J. T.

ABSTRACT: Lipopolysaccharides (LPS) are found in the outer membrane of the  
gram-negative diplococcus *Neisseria meningitidis* and are linked to  
the virulence of the bacteria. The differences between the immunotypes...

... DESCRIPTORS: *Neisseria meningitidis*

37/3, K/88 (Item 2 from file: 149)

DIALOG(R) File 149: TGG Health&Wellness DB(SM)

(c) 2010 Gale/Cengage. All rights reserved.

01295121 SUPPLIER NUMBER: 10519497 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
Point mutation in meningococcal por A gene associated with increased  
endemic disease.

McGuinness, B.T.; Clarke, I.N.; Lambden, P.R.; Barlow, A.K.; Poolman,  
J.T.; Jones, D.M.; Heckels, J.E.  
The Lancet, v337, n8740, p514(4)

March 2,  
1991

PUBLICATION FORMAT: Magazine/Journal ISSN: 0099-5355 LANGUAGE: English  
RECORD TYPE: Fulltext; Abstract TARGET AUDIENCE: Professional  
WORD COUNT: 2000 LINE COUNT: 00200

... Poolman, J.T

ABSTRACT: Meningococci (*Neisseria meningitidis*) are organisms that  
cause meningococcal infections, of which the most common complication is  
meningitis...

...one case of meningitis in Gloucester was analyzed. Por A genes from  
other strains of *Neisseria meningitidis* were also analyzed for  
comparative purposes. Results showed that the amino acid sequence from...

TEXT:

...protein, responsible for antigenic subtype specificity, has been  
cloned and sequenced in an isolate of *Neisseria meningitidis*  
(B:15:P1.7,16) from a patient in the Gloucester area with meningococcal...  
... properties of the class 1 protein in this and related isolates.

Methods

All isolates of *Neisseria meningitidis* were from patients with  
meningococcal meningitis and were submitted to the PHLS Meningococcal  
Reference... KAV, Stuart JM, Jones DM, Noah ND. The Stonehouse survey:  
nasopharyngeal carriage of meningococci and *Neisseria lactamica*,  
Epidemiol Infect 1987; 99: 591-601.

(2) Poolman JT, Lind I, Jonsdottir K, Froholm...

...58.

(3) Knight AI, Cartwright KAV, McFadden J. Identification of a UK  
outbreak strain of *Neisseria meningitidis* with a DNA probe. Lancet  
1990; 335: 1182-84.

(4) McGuinness B, Barlow AK...

...al. Deduced amino acid sequences of class 1 protein (Por A) from three  
strains of *Neisseria meningitidis*: synthetic peptides define the  
epitopes responsible for serosubtype specificity. J Exp Med 1990; 171:  
1871-78.

(5) Frasch CE, Zollinger WD, Poolman JT. Serotype antigens of  
*Neisseria meningitidis* and a proposed scheme for designation of  
serotypes. Rev Infect Dis 1985; 7: 504-9) Frasch CE, Tsai C-M, Mocca LF.  
Outer membrane proteins of *Neisseria meningitidis*: structure and  
importance in meningococcal disease. Clin Invest Med 1986; 9: 101-07.

(1...

...57: 1590-98.

(11) Barlow AK, Heckels JE, Clarke IN. Molecular cloning and  
expression of *Neisseria meningitidis* class 1 outer membrane protein  
in *Escherichia coli* K-12. Infect Immun 1987; 55: 2734-40.

(12) Barlow AK, Heckels JE, Clarke IN. The class 1 outer membrane of  
*Neisseria meningitidis*: gene sequence, structural and immunological  
similarities to gonococcal porins. Mol Microbiol 1989; 3: 131-39.

(13) Abdillahi H, Poolman JT. *Neisseria meningitidis* group B  
serosubtyping using monoclonal antibodies in whole cell ELISA. Microb  
Pathogen 1988; 4...



...47: 139-44.

(15) Virji M, Zak K, Heckels JE. Outer membrane protein III of *Neisseria gonorrhoeae*: variations in biological properties of antibodies directed against different epitopes. *J Gen Microbiol* 1987...

...3393-401.

(16) Jones DM, For AJ, Gray SJ, Saunders NA. DNA probes for typing *Neisseria meningitidis*. *Lancet* 1990; 336: 53-54.

...DESCR PTORS: *Neisseria meningitidis*...

...*Neisseria meningitidis*

? E AU=WEYNANTS, VINCENT

Ref	Items	Index-term
E1	9	AU=WEYNANTS, V. E.
E2	8	AU=WEYNANTS, VE
E3	33	*AU=WEYNANTS, VINCENT
E4	12	AU=WEYNANTS, VINCENT E
E5	7	AU=WEYNANTS, VINCENT E.
E6	4	AU=WEYNARD L. S.
E7	1	AU=WEYNBANNI NGH L
E8	3	AU=WEYNBERG K. D.
E9	1	AU=WEYNBERG KAREN D
E10	1	AU=WEYNBERG KD
E11	2	AU=WEYNBERG P A
E12	1	AU=WEYNBERG, K. D.

Enter P or PAGE for more

? S E1-EE5

>>>Invalid term EE5

? S E1-E5

9	AU=WEYNANTS, V. E.
8	AU=WEYNANTS, VE
33	AU=WEYNANTS, VINCENT
12	AU=WEYNANTS, VINCENT E
7	AU=WEYNANTS, VINCENT E.

S38 69 E1-E5

? S S38 AND (HSF OR TRANSFERRIN OR NEISSERIA)

69	S38
11528	HSF
205291	TRANSFERRIN
158727	NEISSERIA

S39 37 S38 AND (HSF OR TRANSFERRIN OR NEISSERIA)

? RD

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S40 17 RD (unique items)

? T S40/3, K/1-17

>>>KW C option is not available in file(s): 399

40/3, K/1 (Item 1 from file: 24)

DI ALOG(R) File 24: CSA Life Sciences Abstracts

(c) 2010 CSA. All rights reserved.

0004246786 I P ACCESSION NO: 13315803

An Outer Membrane Receptor of *Neisseria meningitidis* Involved in Zinc

Acquisition with Vaccine Potential

Stork, Mchiel; Bos, Martine P; Jongerius, Ilse; de Kok, Natasja;  
Schilders, Ingrid; Weynants, Vincent E; Poolman, Jan T; Tommassen,  
Jan  
Department of Molecular Microbiology, Utrecht University, Utrecht, The  
Netherlands

PLoS Pathogens, v 6, n 7, p [np], July 1, 2010  
PUBLICATION DATE: 2010

PUBLISHER: Public Library of Science, 185 Berry Street San Francisco CA  
94107 United States of America

DOCUMENT TYPE: Journal Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English  
ISSN: 1553-7366  
ELECTRONIC ISSN: 1553-7374  
FILE SEGMENT: Bacteriology Abstracts (Microbiology B); Immunology Abstracts

An Outer Membrane Receptor of *Neisseria meningitidis* Involved in Zinc  
Acquisition with Vaccine Potential

Stork, Mchiel; Bos, Martine P; Jongerius, Ilse; de Kok, Natasja;  
Schilders, Ingrid; Weynants, Vincent E; Poolman, Jan T; Tommassen,  
Jan

ABSTRACT:

... of identifying novel vaccine candidates, we characterized in this  
study a hitherto unknown receptor in *Neisseria meningitidis*. We  
demonstrate that this receptor, designated ZhuD, is produced under zinc  
limitation and that...

...In a search for putative vaccine components, we have characterized here  
a new receptor of *Neisseria meningitidis*, a resident of the  
nasopharynx that occasionally causes sepsis and meningitis. We show that...

... DESCRIPTORS: membranes; Pathogens; Respiratory tract; Sepsis;  
Survival; Vaccines; Zinc; meningococcal disease; pore-forming  
proteins; virulence factors; *Neisseria meningitidis*

40/3, K/2 (Item 2 from file: 24)  
DIALOG(R) File 24: CSA Life Sciences Abstracts  
(c) 2010 CSA. All rights reserved.

0003160890 IP ACCESSION NO: 7931981  
Additive and Synergistic Bactericidal Activity of Antibodies Directed  
against Minor Outer Membrane Proteins of *Neisseria meningitidis*

Weynants, Vincent E; Feron, Christiane M; Goraj, Karine K; Bos,  
Martine P; Denoel, Philippe A; Verlant, Vincent G; Tommassen, Jan;  
Peak, Ian RA; Judd, Ralph C; Jennings, Michael P; Poolman, Jan T  
GlaxoSmithKline Biologicals, B-1330 Rixensart, Belgium Department of  
Molecular Microbiology, Utrecht University, 3584-CH Utrecht, The  
Netherlands. Institute for Glycomics, Griffith University, Southport QLD  
4215, Australia. Division of Biological Sciences, University of Montana,  
Missoula, Montana 59812. School of Molecular & Microbial Sciences,  
University of Queensland, Brisbane QLD 4072, Australia

Infection and Immunity, v 75, n 11, p 5434-5442, November 2007  
PUBLICATION DATE: 2007

PUBLISHER: American Society for Microbiology, 1752 N Street N.W.  
Washington, DC 20036 USA, [URL: <http://www.asm.org/>]

DOCUMENT TYPE: Journal Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English  
ISSN: 0019-9567  
ELECTRONIC ISSN: 1098-5522  
FILE SEGMENT: Immunology Abstracts; Bacteriology Abstracts (Microbiology B)

Additive and Synergistic Bactericidal Activity of Antibodies Directed  
against Minor Outer Membrane Proteins of *Neisseria meningitidis*

Weynants, Vincent E; Feron, Christiane M; Goraj, Karine K; Bos,  
Martine P; Denoel, Philippe A; Verlant...

ABSTRACT:

*Neisseria meningitidis* serogroup B is a major cause of bacterial  
meningitis in younger populations. The available...

... DESCRIPTORS: Antibodies; Bactericidal activity; Children; Complement;  
Cross-protection; Membrane vesicles; Meningitis; Mimicry; Vaccines;  
outer membrane proteins; *Neisseria meningitidis*

40/3, K/3 (Item 3 from file: 24)  
DIALOG(R) File 24: CSA Life Sciences Abstracts  
(c) 2010 CSA. All rights reserved.

0003148817 IP ACCESSION NO: 7930386  
Comparison of Phenotypically Indistinguishable but Geographically Distinct  
*Neisseria meningitidis* Group B Isolates in a Serum Bactericidal  
Antibody Assay

Findlow, Jamie; Holland, Ann; Andrews, Nick; Weynants, Vincent;  
Sotolongo, Franklin; Balmer, Paul; Poolman, Jan; Borrow, Ray  
Vaccine Evaluation Unit, Health Protection Agency North West, Manchester  
Laboratory, Manchester Medical Microbiology Partnership, P.O. Box 209, 2nd  
Floor, Clinical Sciences Building II, Manchester Royal Infirmary,  
Manchester, M13 9WL. Health Protection Agency, Centre for Infections,  
Colindale, London, NW9 5EQ, United Kingdom GlaxoSmithKline Biologicals,  
Rixensart, Belgium Finlay Institute, Ave 27N. 19085, La Lisa A P 160017,  
Cod 11600, Havana, Cuba

Clinical and Vaccine Immunology, v 14, n 11, p 1451-1457, November 2007  
PUBLICATION DATE: 2007

PUBLISHER: American Society for Microbiology, 1752 N Street N.W.  
Washington, DC 20036 USA, [URL: <http://www.asm.org/>]  
DOCUMENT TYPE: Journal Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English  
ISSN: 1556-6811  
ELECTRONIC ISSN: 1556-679X  
FILE SEGMENT: Bacteriology Abstracts (Microbiology B); Immunology Abstracts

Comparison of Phenotypically Indistinguishable but Geographically Distinct

Neisseria meningitidis Group B Isolates in a Serum Bactericidal  
Antibody Assay

Findlow, Jamie; Holland, Ann; Andrews, Nick; Weynants, Vincent;  
Sotolongo, Franklin; Balmer, Paul; Poolman, Jan; Borrow, Ray

ABSTRACT:

The "gold standard" assay for measuring serologic protection against  
Neisseria meningitidis group B (MenB) is the serum bactericidal  
antibody (SBA) assay. Of vital importance to...

DESCRIPTORS: Antibodies; Capsular polysaccharides; Genotypes;  
Lipooligosaccharides; Membrane vesicles; Outer membranes;  
Standardization; Vaccines; Neisseria meningitidis

40/3, K/4 (Item 4 from file: 24)  
DIALOG(R) File 24: CSA Life Sciences Abstracts  
(c) 2010 CSA. All rights reserved.

0002964326 IP ACCESSION NO: 7175484  
Shielding of immunogenic domains in Neisseria meningitidis FrpB  
(FetA) by the major variable region

Kortekaas, Jeroen; Pettersson, Annika; Van der Biezen, Jenny;  
Weynants, Vincent E; Van der Ley, Peter; Poolman, Jan; Bos,  
Martine P; Tommassen, Jan  
Department of Molecular Microbiology and Institute of Biomembranes, Utrecht  
University, Padualaan, 3584 CH Utrecht, The Netherlands,  
[mailto:m.p.bos@io.uu.nl]

Vaccine, v 25, n 1, p 72-84, January 2007  
PUBLICATION DATE: 2007

PUBLISHER: Elsevier Science Ltd., The Boulevard Langford Lane Kidlington  
Oxford OX5 1GB UK, [mailto:userinfo-f@elsevier.com],  
[URL: http://www.elsevier.nl]

DOCUMENT TYPE: Journal Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English  
ISSN: 0264-410X  
FILE SEGMENT: Bacteriology Abstracts (Microbiology B); Immunology Abstracts

Shielding of immunogenic domains in Neisseria meningitidis FrpB  
(FetA) by the major variable region

Kortekaas, Jeroen; Pettersson, Annika; Van der Biezen, Jenny;  
Weynants, Vincent E; Van der Ley, Peter; Poolman, Jan; Bos,  
Martine P; Tommassen, Jan

... DESCRIPTORS: sequence; Epitope mapping; Immune response; Immunity;  
Immunization; Immunofluorescence; Microscopy; Vaccines; Variable  
region; outer membrane proteins; Neisseria meningitidis

40/3, K/5 (Item 5 from file: 24)  
DIALOG(R) File 24: CSA Life Sciences Abstracts  
(c) 2010 CSA. All rights reserved.

0002950345 IP ACCESSION NO: 7047661

Immunogenicity and structural characterisation of an in vitro folded meningococcal siderophore receptor (FrpB, FetA)

Kortekaas, Jeroen; Mueller, Shirley A; Ringler, Philippe; Gregorini, Marco; Weynants, Vincent E; Rutten, Lucy; Bos, Martine P; Tommassen, Jan

Department of Molecular Microbiology, Institute of Biomembranes, Utrecht University, Padualaan 8, 3584 CH Utrecht, The Netherlands, [mailto:m.p.bos@io.uu.nl]

Microbes and Infection, v 8, n 8, p 2145-2153, July 2006  
PUBLICATION DATE: 2006

PUBLISHER: Editions Scientifiques et Medicales Elsevier, 23 rue Li nois 75724 Paris cedex 15 France, [URL:http://www.elsevier.fr]

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

ISSN: 1286-4579

FILE SEGMENT: Bacteriology Abstracts (Microbiology B); Immunology Abstracts

Kortekaas, Jeroen; Mueller, Shirley A; Ringler, Philippe; Gregorini, Marco; Weynants, Vincent E; Rutten, Lucy; Bos, Martine P; Tommassen, Jan

## ABSTRACT:

The iron-limitation-inducible protein FrpB of *Neisseria meningitidis* is an outer-membrane-localized siderophore receptor. Because of its abundance and its capacity...... DESCRIPTORS: protein; Immunogenicity; Inclusion bodies; Laboratory animals; Protein folding; Protein structure; Vaccines; siderophore receptors; *Escherichia coli*; *Neisseria meningitidis*40/3, K/6 (Item 6 from file: 24)  
DIALOG(R) File 24: CSA Life Sciences Abstracts  
(c) 2010 CSA. All rights reserved.

0002816358 IP ACCESSION NO: 6737828

Vaccine potential of the *Neisseria meningitidis* lactoferrin-binding proteins LbpA and LbpBPettersson, Annika; Kortekaas, Jeroen; Weynants, Vincent E; Voet, Pierre; Poolman, Jan T; Bos, Martine P; Tommassen, Jan  
Department of Molecular Microbiology, Institute of Biomembranes, Utrecht University, Padualaan 8, 3584 CH Utrecht, The Netherlands, [mailto:m.p.bos@io.uu.nl]Vaccine, v 24, n 17, p 3545-3557, 2006  
PUBLICATION DATE: 2006

PUBLISHER: Butterworth-Heinemann, 313 Washington St. Newton MA 02158 USA

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

ISSN: 0264-410X

FILE SEGMENT: Bacteriology Abstracts (Microbiology B); Immunology Abstracts  
Vaccine potential of the *Neisseria meningitidis* lactoferrin-binding  
proteins LbpA and LbpB

Pettersson, Anni ka; Kortekaas, Jeroen; Weynants, Vincent E; Voet,  
Pierre; Poolman, Jan T; Bos, Martine P; Tommassen, Jan

ABSTRACT:

The vaccine potential of the *Neisseria meningitidis*  
lactoferrin-binding proteins LbpA and LbpB was evaluated. Sequencing and  
sequence alignments suggested that...

... DESCRIPTORS: Outer membranes; Antisera; LbpA protein; Nucleotide  
sequence; Monoclonal antibodies; Bactericidal activity; Western  
blotting; LbpB protein; *Neisseria meningitidis*; *Escherichia coli*

40/3, K/7 (Item 7 from file: 24)  
DIALOG(R) File 24: CSA Life Sciences Abstracts  
(c) 2010 CSA. All rights reserved.

0002705472 IP ACCESSION NO: 6188781  
Function of *Neisseria* Outer Membrane Phospholipase A in Autolysis and  
Assessment of Its Vaccine Potential

Bos, Martine P; Tefsen, Boris; Voet, Pierre; Weynants, Vincent;  
Van Putten, Jos PM; Tommassen, Jan  
Department of Molecular Microbiology and Institute for Biomembranes.  
Department of Infectious Diseases and Immunology, Utrecht University,  
Utrecht, The Netherlands

Infection and Immunity, v 73, n 4, p 2222-2231, April 2005  
PUBLICATION DATE: 2005

PUBLISHER: American Society for Microbiology, 1752 N Street N.W  
Washington, DC 20036 USA, [URL: <http://www.asm.org/>]

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

ISSN: 0019-9567

FILE SEGMENT: Bacteriology Abstracts (Microbiology B); Immunology Abstracts

Bos, Martine P; Tefsen, Boris; Voet, Pierre; Weynants, Vincent;  
Van Putten, Jos PM; Tommassen, Jan

ABSTRACT:

... Here, we investigated the presence, function, and vaccine potential of  
OMPLA in the human pathogen *Neisseria meningitidis*. Immunoblot  
analysis showed the presence of OMPLA in 28 out of 33 meningococcal strains  
...

... strains all contained a *pldA* gene, but these alleles contained premature  
stop codons. All six *Neisseria gonorrhoeae* strains tested, but only  
two out of seven commensal *neisseria* strains investigated, expressed OMPLA  
...

... DESCRIPTORS: Outer membranes; Antibodies; Phospholipase A; Commensals  
; phospholipase; Virulence; Phospholipids; Autolysis; Nonsense  
mutation; *pldA* gene; Autolysins; *Neisseria meningitidis*;

Neisseria gonorrhoeae

40/3, K/8 (Item 1 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

152343487 CA: 152(15)343487u PATENT

Outer membrane vesicle (OMV) vaccine comprising protein NMB0964 from

Neisseria meningitidis

INVENTOR(AUTHOR): Bos, Martine Petronella; Poolman, Jan; Stork, Michiel;  
Tomassen, Johannes Petrus Maria; Veynants, Vincent

LOCATION: Belg.

ASSIGNEE: GlaxoSmithKline Biologicals S.A.; Utrecht University

PATENT: PCT International ; WO 201025964 A1 DATE: 20100311

APPLICATION: WO 2009EP52689 (20090306) \*GB 200816447 (20080908)

PAGES: 43pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

I PCR/8 + Level Value Position Status Version Action Source Office:

A61K-0039/095

A I F B 20060101

H EP

C07K-0014/22

A I L B 20060101

H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB; BG; BH; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX; MY; MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; ST; SV; SY; TJ; TM; TN; TR; DESIGNATED REGIONAL: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LT; LU; LV; MC; MK; MT; NL; NO; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

40/3, K/9 (Item 2 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

148099084 CA: 148(5)99084q PATENT

Lipooligosaccharide meningococcal vaccines

INVENTOR(AUTHOR): Devos, Nathalie; Feron, Christiane; Poolman, Jan;  
Veynants, Vincent

LOCATION: Belg.

ASSIGNEE: GlaxoSmithKline Biologicals SA

PATENT: PCT International ; WO 2007144316 A2 DATE: 20071221

APPLICATION: WO 2007EP55676 (20070608) \*US 2006PV804475 (20060612) \*US  
2006PV804489 (20060612)

PAGES: 83pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-000/A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BH; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX; MY; MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; SV; SY; TJ; TM; TN; TR; TT; TZ; UA; DESIGNATED REGIONAL: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC; MT; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

40/3, K/10 (Item 3 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

146315013 CA: 146(16)315013u PATENT

Serum bactericidal assay for *Neisseria meningitidis*-specific antibodies

INVENTOR(AUTHOR): De Vleeschauwer, Isabel; Durant, Nathalie; Poolman, Jan; Weynants, Vincent

LOCATION: Belg.

ASSIGNEE: GlaxoSmithKline Biologicals S.A.

PATENT: PCT International ; WO 200728408 A1 DATE: 20070315

APPLICATION: WO 2005EP9566 (20050905)

PAGES: 52pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

IPC/8 + Level Value Position Status Version Action Source Office:

G01N-0033/569

A I F B 20060101

H EP

C12N-0001/22

A I L B 20060101

H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW DESIGNATED REGIONAL: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

40/3, K/11 (Item 4 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

146161138 CA: 146(9)161138z JOURNAL

Immunogenicity and safety of three doses of a bivalent (B:4:P1.19,15 and B:4:P1.7-2,4) meningococcal outer membrane vesicle vaccine in healthy adolescents

AUTHOR(S): Boutreau, Dominique; Poolman, Jan; Borrow, Ray; Findlow, Jamie; Domingo, Javier Diez; Pui-g-Barbera, Joan; Baldo, Jose Maria; Planelles, Victoria; Jubert, Angels; Colomer, Julia; Gil, Angel; Levi e, Karin; Kervyn, Anne-Diane; Weynants, Vincent; Dominguez, Francisco; Barbera, Ramon; Sotolongo, Franklin

LOCATION: GlaxoSmithKline Biologicals, Rixensart, Belg.

JOURNAL: Clin. Vaccine Immunol. (Clinical and Vaccine Immunology) DATE: 2007 VOLUME: 14 NUMBER: 1 PAGES: 65-73 CODEN: CVILA6 ISSN: 1556-6811

LANGUAGE: English PUBLISHER: American Society for Microbiology

40/3, K/12 (Item 5 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

140259048 CA: 140(16)259048w PATENT

*Neisseria* outer membrane FrpB proteins containing loop-deletions for improved refolding and vaccine use

INVENTOR(AUTHOR): Biemans, Ralph; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Kortekaas, Jeroen; Poolman, Jan; Tommassen, Jan; Weynants, Vincent

LOCATION: Belg.

ASSIGNEE: GlaxoSmithKline Biologicals S.A.; Utrecht University; Technology Foundation (Stichting Voor de Technische Wetenschappen)

PATENT: PCT International ; WO 200420463 A2 DATE: 20040311

APPLICATION: WO 2003EP9634 (20030828) \*GB 200220199 (20020830)

PAGES: 104 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:



CLASS: C07K-014/00A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

40/3, K/13 (Item 6 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

140249770 CA: 140(16)249770m PATENT

Refolding of recombinantly produced NspA protein from *Neisseria* using the detergent SB-12 in an alkaline refolding buffer and use of NspA in the treatment, prevention and diagnosis of *Neisseria* infections

INVENTOR(AUTHOR): Biemans, Ralph; Bos, Martine; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Poolman, Jan; Tomassen, Jan; Weynants, Vincent  
LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S. A.; Utrecht University

PATENT: PCT International; WO 200420452 A2 DATE: 20040311

APPLICATION: WO 2003EP10085 (20030828) \*GB 200220197 (20020830)

PAGES: 62 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: C07K-000/A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

40/3, K/14 (Item 7 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

140198071 CA: 140(13)198071z PATENT

Meningococcal genetically engineered vaccine composition which has a fixed or locked lipooligosaccharide (LOS) immunotype

INVENTOR(AUTHOR): Biemans, Ralph; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Jennings, Michael Paul; Poolman, Jan; Weynants, Vincent  
LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals Sa; The University of Queensland

PATENT: PCT International; WO 200415099 A2 DATE: 20040219

APPLICATION: WO 2003EP8569 (20030731) \*GB 200218037 (20020802) \*GB

200218036 (20020802) \*GB 200218035 (20020802) \*GB 200218051 (20020802) \*GB

200220197 (20020830) \*GB 200220199 (20020830) \*GB 200225524 (20021101) \*GB

200225531 (20021101) \*GB 200230164 (20021224) \*GB 200230168 (20021224) \*GB

200230170 (20021224) \*GB 20035028 (20030305)

PAGES: 42 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: C12N-015/00A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;

10523114HSFTBP.txt

LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;  
SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN;  
YU; ZA; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE  
; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK;  
EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF;  
BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

40/3, K/15 (Item 8 from file: 399)  
DI ALOG(R) File 399: CA SEARCH(R)  
(c) 2010 American Chemical Society. All rts. reserv.

140198065 CA: 140(13)198065a PATENT  
Vaccine compositions comprising Neisserial adhesin, autotransporter,  
toxin, iron acquisition protein and membrane-associated protein against  
Neisserial infection  
INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Biemans, Ralph;  
Denoel, Philippe; Feron, Christiane; Goraj, Karine; Poolman, Jan; Veynants,  
Vincent  
LOCATION: Belg.  
ASSIGNEE: Glaxosmithkline Biologicals S.A.  
PATENT: PCT International ; WO 200414418 A2 DATE: 20040219  
APPLICATION: WO 2003EP8571 (20030731) \*GB 200218037 (20020802) \*GB  
200218036 (20020802) \*GB 200218035 (20020802) \*GB 200218051 (20020802) \*GB  
200220197 (20020830) \*GB 200220199 (20020830) \*GB 200225524 (20021101) \*GB  
200225531 (20021101) \*GB 200230164 (20021224) \*GB 200230168 (20021224) \*GB  
200230170 (20021224) \*GB 20035028 (20030305)

PAGES: 113 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-039/02A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;  
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;  
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;  
LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;  
SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN;  
YU; ZA; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE  
; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK;  
EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF;  
BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

40/3, K/16 (Item 9 from file: 399)  
DI ALOG(R) File 399: CA SEARCH(R)  
(c) 2010 American Chemical Society. All rts. reserv.

140180125 CA: 140(12)180125k PATENT  
Vaccine composition comprising transferrin binding protein and Hsf  
against Neisseria meningitidis, Neisseria gonorrhoeae, Moraxella  
catarrhalis and Haemophilus influenzae  
INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Biemans, Ralph;  
Denoel, Philippe; Feron, Christiane; Goraj, Carine; Poolman, Jan; Veynants,  
Vincent  
LOCATION: Belg.  
ASSIGNEE: Glaxosmithkline Biologicals S.A.  
PATENT: PCT International ; WO 200414419 A1 DATE: 20040219  
APPLICATION: WO 2003EP8567 (20030731) \*GB 200218037 (20020802) \*GB  
200218036 (20020802) \*GB 200218035 (20020802) \*GB 200218051 (20020802) \*GB  
200220197 (20020830) \*GB 200220199 (20020830) \*GB 200225524 (20021101) \*GB  
200225531 (20021101) \*GB 200230164 (20021224) \*GB 200230168 (20021224) \*GB  
200230170 (20021224) \*GB 20035028 (20030305)

PAGES: 64 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-039/095A; A61K-039/102B; A61K-039/00B

10523114HSFTBP.txt

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;  
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;  
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;  
LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;  
SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN;  
YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE  
; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK;  
EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF;  
BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

40/3, K/17 (Item 10 from file: 399)  
DI ALOG(R) File 399: CA SEARCH(R)  
(c) 2010 American Chemical Society. All rights reserved.

140180124 CA: 140(12)180124j PATENT  
Engineered meningococcal strains comprising LOS subunit or outer membrane  
vesicle with downregulated or deleted PorA, QpA and/or QpC for use as  
neisserial vaccines  
INVENTOR(AUTHOR): Biemans, Ralph; Denoel, Philippe; Feron, Christiane;  
Goraj, Karine; Poolman, Jan; Veynants, Vincent  
LOCATION: Belg.  
ASSIGNEE: Glaxosmithkline Biologicals SA  
PATENT: PCT International ; WO 200414417 A2 DATE: 20040219  
APPLICATION: WO 2003EP8568 (20030731) \*GB 200218037 (20020802) \*GB  
200218036 (20020802) \*GB 200218035 (20020802) \*GB 200218051 (20020802) \*GB  
200220197 (20020830) \*GB 200220199 (20020830) \*GB 200225524 (20021101) \*GB  
200225531 (20021101) \*GB 200230164 (20021224) \*GB 200230168 (20021224) \*GB  
200230170 (20021224) \*GB 20035028 (20030305)  
PAGES: 51 pp. CODEN: PIXD2 LANGUAGE: English  
PATENT CLASSIFICATIONS:  
CLASS: A61K-039/00A  
DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;  
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;  
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;  
LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;  
SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN;  
YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE  
; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK;  
EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF;  
BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG  
? DS

Set	Items	Description
S1	71	E1-E12 AND (MYCOBAC? OR APOLAR OR NONPOLAR)
S2	37	RD (unique items)
S3	236	E1-E12 AND (MYCOBAC? OR NONPOLAR OR APOLAR)
S4	1	S3 AND (APOLAR OR NONPOLAR)
S5	13	E1-E2
S6	7	S5 AND (MYCOB?)
S7	94	E1-E12
S8	72	S7 AND (MYCOBAC?)
S9	46	RD (unique items)
S10	1	S9 AND (APOLAR OR NONPOLAR OR NON-POLAR)
S11	0	(NONPOLAR OR APOLAR OR NON-POLAR) AND (MYCOBAC?) AND (DI METHYLDIOCTADECYLAMMONIUM?)
S12	487	(NONPOLAR OR APOLAR OR NON-POLAR) AND (MYCOBAC?)
S13	1	S12 AND DDA
S14	1	S12 AND ESAT6?
S15	40	S12 AND FRACTION
S16	10	RD (unique items)
S17	5	(NONPOLAR OR APOLAR OR NON-POLAR) AND (DI METHYLDIOCTADECYL-AMMONIUM?)

S18 3 RD (unique items)  
 S19 217 (DI METHYLDI OCTADECYLAMMONIUM?) AND (MYCOBAC?)  
 S20 80 RD (unique items)  
 S21 1 S20 AND (FRACTION?)  
 S22 0 S20 AND (POLAR OR APOLAR OR NONPOLAR OR NON-POLAR OR CHLOROFORM OR METHANOL)  
 S23 2 S20 AND SOLVENT  
 S24 201 E1-E12  
 S25 6 S24 AND (TRANSFERRIN OR HSF OR NEISSERIA)  
 S26 5 RD (unique items)  
 S27 4 E1-E12 AND (HSF OR TRANSFERRIN)  
 S28 4 RD (unique items)  
 S29 117 E1-E12  
 S30 7 S29 AND (HSF OR TRANSFERRIN)  
 S31 7 RD (unique items)  
 S32 9 E1-E12 AND (HSF OR TRANSFERRIN)  
 S33 8 RD (unique items)  
 S34 32 E1-E12  
 S35 1 S34 AND (HSF OR TRANSFERRIN)  
 S36 104 E1-E7 AND (HSF OR TRANSFERRIN OR NEISSERIA)  
 S37 88 RD (unique items)  
 S38 69 E1-E5  
 S39 37 S38 AND (HSF OR TRANSFERRIN OR NEISSERIA)  
 S40 17 RD (unique items)  
 ? E AU=BI EMANS, RALPH

Ref	Items	Index-term
E1	28	AU=BI EMANS, R.
E2	24	*AU=BI EMANS, RALPH
E3	21	AU=BI EMANS, RALPH LEON
E4	2	AU=BI EMANS, ROGIER
E5	2	AU=BI EMANS, T.
E6	1	AU=BI EMANS, TOINE
E7	1	AU=BI EMANS, TOINE H.
E8	4	AU=BI EMANS, W
E9	105	AU=BI EMANS, W G
E10	2	AU=BI EMANS, W G
E11	2	AU=BI EMANS, W M
E12	1	AU=BI EMANS, W M G

Enter P or PAGE for more

? S E1-E12  
     28 AU=BI EMANS, R.  
     24 AU=BI EMANS, RALPH  
     21 AU=BI EMANS, RALPH LEON  
     2 AU=BI EMANS, ROGIER  
     2 AU=BI EMANS, T.  
     1 AU=BI EMANS, TOINE  
     1 AU=BI EMANS, TOINE H.  
     4 AU=BI EMANS, W  
     105 AU=BI EMANS, W G  
     2 AU=BI EMANS, W G  
     2 AU=BI EMANS, W M  
     1 AU=BI EMANS, W M G  
 S41 190 E1-E12  
 ? S S41 AND (HSF OR TRANSFERRIN OR NEISSERIA)  
     190 S41  
     11528 HSF  
     205291 TRANSFERRIN  
     158727 NEISSERIA  
 S42 16 S41 AND (HSF OR TRANSFERRIN OR NEISSERIA)  
 ? RD

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S43 15 RD (unique items)

? T S43/3, K/1-15

>>>KWC option is not available in file(s): 399

43/3, K/1 (Item 1 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

151108227 CA: 151(5)108227e PATENT

Method for preparing protein conjugates

INVENTOR(AUTHOR): Biemans, Ralph Leon; Duvi vier, Pierre

LOCATI ON: Belg.

ASSI GNEE: Glaxosmithkline Biologi cal s S. A.

PATENT: PCT International ; WO 200977438 A1 DATE: 20090625

APPLI CATION: WO 2008EP67378 (20081212) \*GB 200724360 (20071214)

PAGES: 87pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSI FI CATI ONS:

I PCR/8 + Level Value Position Status Version Action Source Office:

A61K-0047/48

A I F B 20060101

H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB; BG; BH; BR;  
 BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES;  
 FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN;  
 KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX;  
 MY; MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG;  
 SK; SL; SM; ST; SV; SY; TJ; TM; TN; TR DESIGNATED REGIONAL: AT; BE; BG; CH  
 ; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LT; LU; LV;  
 MC; MT; NL; NO; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN;  
 GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ;  
 TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

43/3, K/2 (Item 2 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

149150894 CA: 149(7)150894d PATENT

Process for conjugation of bacterial poly- or oligosaccharides and  
 proteins, polypeptide and polynucleotide sequences of proteins, and their  
 use in vaccines

INVENTOR(AUTHOR): Biemans, Ralph Leon; Duvi vier, Pierre

LOCATI ON: Belg.

ASSI GNEE: Glaxosmithkline Biologi cal s S. A.

PATENT: PCT International ; WO 200881014 A2 DATE: 20080710

APPLI CATION: WO 2008EP50011 (20080102) \*GB 2007136 (20070104)

PAGES: 101pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSI FI CATI ONS:

I PCR/8 + Level Value Position Status Version Action Source Office:

A61K-0039/00

A I F B 20060101

H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB; BG; BH; BR;  
 BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES;  
 FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN;  
 KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX;  
 MY; MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG;  
 SK; SL; SM; SV; SY; TJ; TM; TN; TR TT DESIGNATED REGIONAL: AT; BE; BG; CH  
 ; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HR; HU; IE; IS; IT; LT; LU; LV;  
 MC; MT; NL; NO; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN;  
 GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ;  
 TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

43/3, K/3 (Item 3 from file: 399)  
 DI ALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rts. reserv.

149126535 CA: 149(6)126535s PATENT

Carbodiimide coupling in the preparation of saccharide conjugate vaccines

INVENTOR(AUTHOR): Bi emans, Ralph Leon; Duvivier, Pierre

LOCATI ON: Bel g.

ASSI GNEE: Gl axoSmithKline Bi ologi cal s S. A.

PATENT: PCT International ; WO 200881022 A1 DATE: 20080710

APPLI CATI ON: WO 2008EP50021 (20080102) \*GB 2007135 (20070104)

PAGES: 65pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSI FI CATI ONS:

I PCR/ 8 + Level Value Position Status Version Action Source Office:

A61K-0039/095 A I F B 20060101 H EP

A61K-0039/102 A I L B 20060101 H EP

A61K-0039/116 A I L B 20060101 H EP

A61K-0039/02 A I L B 20060101 H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AO; AT; AU; AZ; BA; BB; BG; BH; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DO; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; GT; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LY; MA; MD; ME; MG; MK; MN; MW; MX; MY; MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; SV; SY; TJ; TM; TN; TR; TT DESIGNATED REGIONAL: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC; MT; NL; NO; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

43/3, K/4 (Item 4 from file: 399)  
 DI ALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rts. reserv.

146099125 CA: 146(6)99125n PATENT

Combination vaccine comprising a Haemophilus influenzae type b saccharide conjugate and addnl. bacterial saccharide conjugates

INVENTOR(AUTHOR): Bi emans, Ralph Leon; Boutria u, Domi ni que; Capi au, Carine; Denoel, Philippe; Duvivier, Pierre; Pool man, Jan

LOCATI ON: Bel g.

ASSI GNEE: Gl axosmithkline Bi ologi cal s S. A.

PATENT: PCT International ; WO 200700322 A1 DATE: 20070104

APPLI CATI ON: WO 2006EP6210 (20060623) \*GB 200513069 (20050627) \*GB 200513071 (20050627) \*GB 200515556 (20050728) \*GB 200524204 (20051128) \*GB 200526040 (20051221) \*GB 200526041 (20051221)

PAGES: 52pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSI FI CATI ONS:

I PCR/ 8 + Level Value Position Status Version Action Source Office:

A61K-0039/095 A I F B 20060101 H EP

A61K-0039/102 A I L B 20060101 H EP

A61K-0039/116 A I L B 20060101 H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LV; LY; MA; MD; ME; MG; MK; MN; MW; MX; MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC DESIGNATED REGIONAL: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

43/3, K/5 (Item 5 from file: 399)  
 DI ALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rts. reserv.

146099123 CA: 146(6)99123k PATENT  
 Immunogenic composition containing *Neisseria meningitidis* capsular  
 saccharides  
 INVENTOR(AUTHOR): Bi emans, Ralph Leon; Boutri au, Domi ni que; Capi au,  
 Carine; Denoel, Philippe; Duvivier, Pierre; Pool man, Jan  
 LOCATI ON: Belg.  
 ASSI GNEE: Gl axosm thkline Bi ologi cal s S. A.  
 PATENT: PCT International ; WO 200700341 A2 DATE: 20070104  
 APPLI CATI ON: WO 2006EP6268 (20060623) \*GB 200513069 (20050627) \*GB  
 200513071 (20050627) \*GB 200515556 (20050728) \*GB 200524204 (20051128) \*GB  
 200526041 (20051221) \*GB 200526040 (20051221)  
 PAGES: 66pp. CODEN: PI XXD2 LANGUAGE: English  
 PATENT CLASSI FI CATI ONS:  
 I PCR/ 8 + Level Value Position Status Version Action Source Office:  
 A61K-0039/095 A I F B 20060101 H EP  
 A61K-0039/102 A I L B 20060101 H EP  
 A61K-0039/116 A I L B 20060101 H EP  
 DESI GNATED COUNTRI ES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;  
 BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;  
 GE; GH; GM; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA;  
 LC; LK; LR; LS; LT; LU; LV; LY; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NG; NI;  
 NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ;  
 TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC DESI GNATED REGI ONAL: AT; BE; BG; CH  
 ; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC;  
 NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML;  
 MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM;  
 ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

43/3, K/6 (Item 6 from file: 399)  
 DI ALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rts. reserv.

146099122 CA: 146(6)99122j PATENT  
*Neisseria meningitidis* capsular polysaccharide vaccine conjugate  
 INVENTOR(AUTHOR): Bi emans, Ralph Leon; Boutri au, Domi ni que; Capi au,  
 Carine; Denoel, Philippe; Duvivier, Pierre; Pool man, Jan  
 LOCATI ON: Belg.  
 ASSI GNEE: Gl axosm thkline Bi ologi cal s S. A.  
 PATENT: PCT International ; WO 200700314 A2 DATE: 20070104  
 APPLI CATI ON: WO 2006EP6188 (20060623) \*GB 200513071 (20050627) \*GB  
 200513069 (20050627) \*GB 200515556 (20050728) \*GB 200524204 (20051128) \*GB  
 200526040 (20051221) \*GB 200526041 (20051221)  
 PAGES: 46pp. CODEN: PI XXD2 LANGUAGE: English  
 PATENT CLASSI FI CATI ONS:  
 I PCR/ 8 + Level Value Position Status Version Action Source Office:  
 A61K-0039/095 A I F B 20060101 H EP  
 A61K-0039/102 A I L B 20060101 H EP  
 A61K-0039/116 A I L B 20060101 H EP  
 A61P-0031/04 A I L B 20060101 H EP  
 DESI GNATED COUNTRI ES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;  
 BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;  
 GE; GH; GM; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA;  
 LC; LK; LR; LS; LT; LU; LV; LY; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NG; NI;  
 NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ;  
 TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC DESI GNATED REGI ONAL: AT; BE; BG; CH  
 ; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC;

NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML;  
MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM;  
ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

43/3, K/7 (Item 7 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

146099120 CA: 146(6)99120g PATENT

Immunogenic composition containing *Neisseria meningitidis* capsular polysaccharides

INVENTOR(AUTHOR): Bi emans, Ralph Leon; Boutriau, Dominique; Capi au, Carine; Denoel, Philippe; Duvivier, Pierre; Poolman, Jan

LOCATI ON: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S.A.

PATENT: PCT International ; WO 200700342 A2 DATE: 20070104

APPLICATI ON: WO 2006EP6269 (20060623) \*GB 200513069 (20050627) \*GB 200513071 (20050627) \*GB 200515556 (20050728) \*GB 200524204 (20051128) \*GB 200526040 (20051221) \*GB 200526041 (20051221)

PAGES: 64pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFI CATI ONS:

IPC/8 + Level Value Position Status Version Action Source Office:

A61K-0039/095 A I F B 20060101 H EP

A61K-0039/102 A I L B 20060101 H EP

A61K-0039/116 A I L B 20060101 H EP

A61P-0031/04 A I L B 20060101 H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LV; LY; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NG; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC DESIGNATED REGIONAL: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

43/3, K/8 (Item 8 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

146099119 CA: 146(6)99119p PATENT

Preparation of saccharide-protein conjugates for vaccination

INVENTOR(AUTHOR): Bi emans, Ralph Leon; Duvivier, Pierre

LOCATI ON: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S.A.

PATENT: PCT International ; WO 200700343 A2 DATE: 20070104

APPLICATI ON: WO 2006EP6270 (20060623) \*GB 200513069 (20050627) \*GB 200513071 (20050627) \*GB 200515556 (20050728) \*GB 200524204 (20051128) \*GB 200526040 (20051221) \*GB 200526041 (20051221)

PAGES: 37pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFI CATI ONS:

IPC/8 + Level Value Position Status Version Action Source Office:

A61K-0039/095 A I F B 20060101 H EP

A61K-0039/102 A I L B 20060101 H EP

A61K-0039/116 A I L B 20060101 H EP

A61P-0031/04 A I L B 20060101 H EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA; LC; LK; LR; LS; LT; LU; LV; LY; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NG; NI;



NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ;  
 TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC DESIGNATED REGIONAL: AT; BE; BG; CH;  
 ; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC;  
 NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML;  
 MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM;  
 ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

43/3, K/9 (Item 9 from file: 399)  
 DI ALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rts. reserv.

146099118 CA: 146(6)99118n PATENT  
 Combination vaccines comprising Haemophilus influenzae type b saccharide  
 conjugate, an addnl. bacterial saccharide conjugate, and further antigens  
 INVENTOR(AUTHOR): Bi emans, Ralph Leon; Boutri au, Domi nique; Capi au,  
 Carine; Denoel, Philippe; Duvivier, Pierre; Pool man, Jan  
 LOCATI ON: Belg.  
 ASSI GNEE: Gl axosm thkline Bi ologi cal s S. A.  
 PATENT: PCT International ; WO 200700327 A1 DATE: 20070104  
 APPLI CATI ON: WO 2006EP6220 (20060623) \*GB 200513069 (20050627) \*GB  
 200513071 (20050627) \*GB 200515556 (20050728) \*GB 200524204 (20051128) \*GB  
 200526041 (20051221) \*GB 200526040 (20051221)  
 PAGES: 49pp. CODEN: PI XXD2 LANGUAGE: English  
 PATENT CLASSI FI CATI ONS:

IPC/8 + Level	Value	Position	Status	Version	Action	Source	Office:
A61K-0039/095	A	I	F	B	20060101	H	EP
A61K-0039/102	A	I	L	B	20060101	H	EP
A61K-0039/116	A	I	L	B	20060101	H	EP

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;  
 BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;  
 GE; GH; GM; HN; HR; HU; ID; IL; IN; IS; JP; KE; KG; KM; KN; KP; KR; KZ; LA;  
 LC; LK; LR; LS; LT; LU; LV; LY; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NG; NI;  
 NO; NZ; OM; PG; PH; PL; PT; RO; RS; RU; SC; SD; SE; SG; SK; SL; SM; SY; TJ;  
 TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC DESIGNATED REGIONAL: AT; BE; BG; CH;  
 ; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IS; IT; LT; LU; LV; MC;  
 NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML;  
 MR; NE; SN; TD; TG; BW; GH; GM; KE; LS; MW; MZ; NA; SD; SL; SZ; TZ; UG; ZM;  
 ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM

43/3, K/10 (Item 10 from file: 399)  
 DI ALOG(R) File 399: CA SEARCH(R)  
 (c) 2010 American Chemical Society. All rts. reserv.

140259048 CA: 140(16)259048w PATENT  
 Neisseria outer membrane FrpB proteins containing loop-deletions for  
 improved refolding and vaccine use  
 INVENTOR(AUTHOR): Bi emans, Ralph; Denoel, Philippe; Feron, Christiane;  
 Goraj, Karine; Kortekaas, Jeroen; Pool man, Jan; Tommassen, Jan; Veynants,  
 Vincent  
 LOCATI ON: Belg.  
 ASSI GNEE: Gl axosm thkline Bi ologi cal s S. A.; Utrecht University;  
 Technology Foundation (Stichting Voor de Technische Wetenschappen)  
 PATENT: PCT International ; WO 200420463 A2 DATE: 20040311  
 APPLI CATI ON: WO 2003EP9634 (20030828) \*GB 200220199 (20020830)  
 PAGES: 104 pp. CODEN: PI XXD2 LANGUAGE: English  
 PATENT CLASSI FI CATI ONS:  
 CLASS: C07K-014/00A  
 DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;  
 CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;  
 GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;  
 LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;

10523114HSFTBP.txt

SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN;  
YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE  
; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK;  
EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF;  
BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

43/3, K/11 (Item 11 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

140249770 CA: 140(16)249770m PATENT

Refolding of recombinantly produced NspA protein from Neisseria using the detergent SB-12 in an alkaline refolding buffer and use of NspA in the treatment, prevention and diagnosis of Neisserial infections

INVENTOR(AUTHOR): Biemans, Ralph; Bos, Martine; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Poolman, Jan; Tomassen, Jan; Veynants, Vincent  
LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S. A.; Utrecht University

PATENT: PCT International; WO 200420452 A2 DATE: 20040311

APPLICATION: WO 2003EP10085 (20030828) \*GB 200220197 (20020830)

PAGES: 62 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: C07K-000/A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;  
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;  
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;  
LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;  
SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN;  
YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE  
; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK;  
EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF;  
BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

43/3, K/12 (Item 12 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rights reserved.

140198071 CA: 140(13)198071z PATENT

Meningococcal genetically engineered vaccine composition which has a fixed or locked lipooligosaccharide (LOS) immunotype

INVENTOR(AUTHOR): Biemans, Ralph; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Jennings, Michael Paul; Poolman, Jan; Veynants, Vincent  
LOCATION: Belg.

ASSIGNEE: Glaxosmithkline Biologicals Sa; The University of Queensland

PATENT: PCT International; WO 200415099 A2 DATE: 20040219

APPLICATION: WO 2003EP8569 (20030731) \*GB 200218037 (20020802) \*GB  
200218036 (20020802) \*GB 200218035 (20020802) \*GB 200218051 (20020802) \*GB  
200220197 (20020830) \*GB 200220199 (20020830) \*GB 200225524 (20021101) \*GB  
200225531 (20021101) \*GB 200230164 (20021224) \*GB 200230168 (20021224) \*GB  
200230170 (20021224) \*GB 20035028 (20030305)

PAGES: 42 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: C12N-015/00A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;  
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;  
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;  
LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;  
SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN;  
YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE  
; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK;  
EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF;  
BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

43/3, K/13 (Item 13 from file: 399)

DI A LOG( R) File 399: CA SEARCH( R)

(c) 2010 American Chemical Society. All rts. reserv.

140198065 CA: 140(13)198065a PATENT

Vaccine compositions comprising Neisserial adhesin, autotransporter, toxin, iron acquisition protein and membrane-associated protein against Neisserial infection

INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Biemans, Ralph; Denoel, Philippe; Feron, Christiane; Goraj, Karine; Poolman, Jan; Weynants, Vincent

LOCATI ON: Belg.

ASSI GNEE: Glaxosmithkline Biologicals S.A.

PATENT: PCT International ; WO 200414418 A2 DATE: 20040219

APPLI CATI ON: WO 2003EP8571 (20030731) \*GB 200218037 (20020802) \*GB 200218036 (20020802) \*GB 200218035 (20020802) \*GB 200218051 (20020802) \*GB 200220197 (20020830) \*GB 200220199 (20020830) \*GB 200225524 (20021101) \*GB 200225531 (20021101) \*GB 200230164 (20021224) \*GB 200230168 (20021224) \*GB 200230170 (20021224) \*GB 20035028 (20030305)

PAGES: 113 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSI FI CATI ONS:

CLASS: A61K-039/02A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

43/3, K/14 (Item 14 from file: 399)

DI A LOG( R) File 399: CA SEARCH( R)

(c) 2010 American Chemical Society. All rts. reserv.

140180125 CA: 140(12)180125k PATENT

Vaccine composition comprising transferrin binding protein and Hsf against Neisseria meningitidis, Neisseria gonorrhoeae, Moraxella catarrhalis and Haemophilus influenzae

INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Biemans, Ralph; Denoel, Philippe; Feron, Christiane; Goraj, Carine; Poolman, Jan; Weynants, Vincent

LOCATI ON: Belg.

ASSI GNEE: Glaxosmithkline Biologicals S.A.

PATENT: PCT International ; WO 200414419 A1 DATE: 20040219

APPLI CATI ON: WO 2003EP8567 (20030731) \*GB 200218037 (20020802) \*GB 200218036 (20020802) \*GB 200218035 (20020802) \*GB 200218051 (20020802) \*GB 200220197 (20020830) \*GB 200220199 (20020830) \*GB 200225524 (20021101) \*GB 200225531 (20021101) \*GB 200230164 (20021224) \*GB 200230168 (20021224) \*GB 200230170 (20021224) \*GB 20035028 (20030305)

PAGES: 64 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSI FI CATI ONS:

CLASS: A61K-039/095A; A61K-039/102B; A61K-039/00B

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN;

10523114HSFTBP.txt

YU; ZA; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE  
; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK;  
EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF;  
BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

43/3, K/15 (Item 15 from file: 399)  
DIALOG(R) File 399: CA SEARCH(R)  
(c) 2010 American Chemical Society. All rights reserved.

140180124 CA: 140(12)180124j PATENT  
Engineered meningococcal strains comprising LOS subunit or outer membrane  
vesicle with downregulated or deleted PorA, OpaA and/or Opc for use as  
neisserial vaccines  
INVENTOR(AUTHOR): Biemans, Ralph; Denoel, Philippe; Feron, Christiane;  
Goraj, Karine; Poolman, Jan; Weynants, Vincent  
LOCATION: Belg.

ASSIGNEE: GlaxoSmithKline Biologicals SA  
PATENT: PCT International ; WO 200414417 A2 DATE: 20040219  
APPLICATI ON: WO 2003EP8568 (20030731) \*GB 200218037 (20020802) \*GB  
200218036 (20020802) \*GB 200218035 (20020802) \*GB 200218051 (20020802) \*GB  
200220197 (20020830) \*GB 200220199 (20020830) \*GB 200225524 (20021101) \*GB  
200225531 (20021101) \*GB 200230164 (20021224) \*GB 200230168 (20021224) \*GB  
200230170 (20021224) \*GB 20035028 (20030305)

PAGES: 51 pp. CODEN: PIXXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-039/00A

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ;  
CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH;  
GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU;  
LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU;  
SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN;  
YU; ZA; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE  
; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW; AT; BE; BG; CH; CY; CZ; DE; DK;  
EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF;  
BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

? S (TRANSFERRIN OR HSF)

205291 TRANSFERRIN

11528 HSF

S44 216790 (TRANSFERRIN OR HSF)

? S S44 AND (NEISSERIA)

216790 S44

158727 NEISSERIA

S45 2683 S44 AND (NEISSERIA)

? S S45 AND (TRANSFERRIN(W) BINDING(W) PROTEIN)

Processing

Processed 10 of 52 files ...

Processing

Processed 20 of 52 files ...

Processing

Processed 40 of 52 files ...

Completed processing all files

2683 S45

205291 TRANSFERRIN

7787775 BINDING

18493386 PROTEIN

1878 TRANSFERRIN(W) BINDING(W) PROTEIN

S46 871 S45 AND (TRANSFERRIN(W) BINDING(W) PROTEIN)

? S S46 AND HSF

871 S46

11528 HSF

S47 3 S46 AND HSF

? T S47/3, K/1-3

>>>KW C option is not available in file(s): 399

47/3, K/1 (Item 1 from file: 399)

DI ALOG(R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

140180125 CA: 140(12)180125k PATENT

Vaccine composition comprising transferrin binding protein and Hsf against *Neisseria meningitidis*, *Neisseria gonorrhoeae*, *Moraxella catarrhalis* and *Haemophilus influenzae*

INVENTOR(AUTHOR): Berthet, Francois-xavier Jacques; Biemans, Ralph; Denoel, Philippe; Feron, Christiane; Goraj, Carine; Poolman, Jan; Weynants, Vincent

LOCATI ON: Belg.

ASSIGNEE: Glaxosmithkline Biologicals S.A.

PATENT: PCT International ; WO 200414419 A1 DATE: 20040219

APPLICATION: WO 2003EP8567 (20030731) \*GB 200218037 (20020802) \*GB 200218036 (20020802) \*GB 200218035 (20020802) \*GB 200218051 (20020802) \*GB 200220197 (20020830) \*GB 200220199 (20020830) \*GB 200225524 (20021101) \*GB 200225531 (20021101) \*GB 200230164 (20021224) \*GB 200230168 (20021224) \*GB 200230170 (20021224) \*GB 20035028 (20030305)

PAGES: 64 pp. CODEN: PIXD2 LANGUAGE: English

PATENT CLASSIFICATIONS:

CLASS: A61K-039/095A; A61K-039/102B; A61K-039/00B

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NI; NO; NZ; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

47/3, K/2 (Item 1 from file: 357)

DI ALOG(R) File 357: Derwent Biotech Res.

(c) 2010 Thomson Reuters. All rts. reserv.

0337155 DBR Accession No.: 2004-09447 PATENT

New immunogenic composition comprising transferrin binding protein and Hsf like protein, useful for treating or preventing disease caused by *Neisseria meningitidis* or *N. gonorrhoeae*, *Moraxella catarrhalis* or *Haemophilus influenzae* - immunogenic composition for use in bacterium infection therapy and vaccine

AUTHOR: BERTHET F J; BIEMANS R; DENOEL P; FERON C; GORAJ C; POOLMAN J; WEYNANTS V

PATENT ASSIGNEE: GLAXOSMITHKLINE BIOLOGICALS SA 2004

PATENT NUMBER: WO 200414419 PATENT DATE: 20040219 WPI ACCESSION NO.: 2004-169460 (200416)

PRIORITY APPLIC. NO.: GB 20035028 APPLIC. DATE: 20030305

NATIONAL APPLIC. NO.: WO 2003EP8567 APPLIC. DATE: 20030731

LANGUAGE: English

New immunogenic composition comprising transferrin binding protein and Hsf like protein, useful for treating or preventing disease caused by *Neisseria meningitidis* or *N. gonorrhoeae*, *Moraxella catarrhalis* or *Haemophilus influenzae* - immunogenic composition for use in bacterium..

ABSTRACT: DERWENT ABSTRACT: NOVELTY - A new immunogenic composition comprises an isolated transferrin binding protein (Tbp) or its antigenic fragment and an isolated Hsf like protein

or its antigenic from the same or different Gram negative bacteria.  
 DETAILED DESCRIPTION...

... or preventing Neisserial infection; and (7) a pharmaceutical preparation comprising monoclonal antibodies against TbpA and Hsf of *Neisseria meningitidis* and an excipient. BIOTECHNOLOGY - Preferred Composition: The immunogenic composition comprises high molecular weight form...

... TbpA and low molecular weight form TbpA. It comprises antigenic fragments of Tbp and/or Hsf like protein capable of generating a protective response against *Neisseria meningitidis* serogroup B, *Neisseria gonorrhoeae*, *Moraxella catarrhalis* or *Haemophilus influenzae* infection. It comprises antigenic fragments of TbpA and/or Hsf. It comprises a fusion protein of Tbp and Hsf like protein or TbpA and Hsf capable of generating a protective response against Neisserial infection. The Hsf like protein or transferrin binding protein is derived from *Neisseria meningitidis* serogroup B, *Neisseria gonorrhoeae*, *Moraxella catarrhalis* or *Haemophilus influenzae*. The transferrin binding protein is TbpA. The immunogenic composition comprises an outer membrane vesicle preparation derived from Gram negative bacteria, in which expression of both transferrin binding protein and Hsf like protein are at least 1.5 fold higher than naturally occurring in the unmodified Gram negative bacteria. The expression of transferrin binding protein is upregulated by growth under iron limitation conditions. At least a part of the outer membrane vesicle preparation is derived from *Neisseria meningitidis* serogroup B, *Neisseria gonorrhoeae*, *Moraxella catarrhalis* or *Haemophilus influenzae*. The transferrin binding protein and Hsf like protein are upregulated on different vesicles originating from different bacterial strains or on the...

... been genetically engineered so as to introduce a stronger promoter sequence upstream of genes encoding transferrin binding protein and Hsf like protein. A host cell from which the outer membrane vesicle preparation is derived has...

... polysaccharide or oligosaccharide. It comprises two or more bacterial capsular polysaccharides or oligosaccharides conjugated to transferrin binding protein or Hsf like proteins or both. The capsular polysaccharide or oligosaccharide is derived from *Neisseria meningitidis* serogroup B, *Neisseria gonorrhoeae*, *Moraxella catarrhalis* or *Haemophilus influenzae*. The immunogenic composition also comprises one or more polynucleotides encoding a transferrin binding protein and a Hsf like protein whose expression is driven by a eukaryotic promoter. It further comprises an adjuvant containing CpG. It also comprises aluminium salts or 3D-MPL. The TbpA and Hsf of *Neisseria meningitidis* are encoded. Preferred Method: Treating or preventing Gram negative bacterial disease comprises administering the...

... Neisserial infection is prevented or treated. Making the immunogenic composition comprises: (1) mixing together isolated transferrin binding protein and isolated Hsf like protein; (2) isolating outer membrane vesicles from a Gram negative bacterial culture, which involves...

... preferably 0.1% detergent, preferably DCC; and (3) conjugating bacterial capsular polysaccharides or oligosaccharides to transferrin binding protein and/or Hsf like protein. Making the

vaccine comprises combining the immunogenic composition with an excipient. Preparing an...

... ACTION - Vaccine. USE - The immunogenic composition is useful for treating or preventing infection caused by *Neisseria meningitidis* serogroup B, *Neisseria gonorrhoeae*, *Moraxella catarrhalis* or *Haemophilus influenzae* (claimed). ADMINISTRATION - The composition is administered via oral or...

DESCRIPTORS: immunogenic composition, transferrin binding protein isol., Hsf-like protein, fusion protein, genetically engineered bacterium outer membrane vesicle, monoclonal antibody, appl. *Neisseria meningitidis*, *Neisseria gonorrhoeae*, *Moraxella catarrhalis*, *Haemophilus influenzae* infection therapy, recombinant vaccine protein bacterium (23, 19)

47/3, K/3 (Item 1 from file: 457)

DIALOG(R) File 457: The Lancet

(c) 2010 Elsevier Limited. All rights reserved.

0000162978

\*\*USE FORMAT 7 OR 9 FOR FULL TEXT\*\*

Serogroup B meningococcal vaccines-an unfinished story

Sadarangani, Manish; Pollard, Andrew J

The Lancet Infectious Diseases vol. 10, 2 PP: 112-24 Feb 2010

DOCUMENT TYPE: PERIODICAL; General Information; Journal Article

LANGUAGE: English RECORD TYPE: New; Fulltext

LENGTH: 13 Pages

WORD COUNT: 10053

#### ABSTRACT:

Most invasive meningococcal disease in developed countries is caused by *Neisseria meningitidis* with a serogroup B capsule. However, despite availability of vaccines for other serogroups since...

#### TEXT:

Most invasive meningococcal disease in developed countries is caused by *Neisseria meningitidis* with a serogroup B capsule. However, despite availability of vaccines for other serogroups since...

...few years.

#### Introduction

The first description of a disease with the characteristics of infection with *Neisseria meningitidis* was made by Gaspard Viéussieux<sup>1</sup> in Geneva, Switzerland, during a meningitis epidemic in 1805... vesicle vaccines. Outer membrane vesicles without PorA and with overexpression of the conserved proteins TbpA, Hsf, NspA, or Omp85 only induced a serum bactericidal antibody response in mice when combined. 79... antibodies in human beings after promising mouse studies and is not being pursued. 47, 108 Transferrin-binding proteins elicited serum bactericidal antibody in mice and rabbits, 109, 110 and there have...

...to establish whether mucosal IgA has a role in protection against colonisation with virulent meningococci. *Neisseria lactamica* is a commensal carried in the nasopharynx of young children and has been implicated...

#### SIDEBAR:

For more on PorA variants see <http://www.neisseria.org>

Panel: Timeline showing the development of serogroup B meningococcal vaccines

1972

B polysaccharide not...

...and the reports of health agencies of relevant countries. Search terms

were "menb", "vaccination", "immunisation", "neisseria",  
"meningitidis", "meningococcal", "serogroup b", "GNA 1870", "GNA1870",  
"LP2086", "factor H binding protein", "fHbp", "GNA2132", "NadA...  
CAPTIONS:

# CITED REFERENCES:

- ... Geneva: World Health Organization, 1998.
- 4 Frasch CE, Zollinger WD, Poolman JT. Serotype antigens of *Neisseria meningitidis* and a proposed scheme for designation of serotypes. *Rev Infect Dis* 1985; 7: 504...
- ... Sci USA 1998; 95: 3140-45.
- 6 Caugant DA. Population genetics and molecular epidemiology of *Neisseria meningitidis*. *APM S* 1998; 106: 505-25.
- 7 EU-IBIS Network. Invasive *Neisseria meningitidis* in Europe 2006. London: Health Protection Agency, 2007.
- 8 Bilukha OO, Rosenstein N. Prevention...
- ... Epidemiology of meningococcal disease in southern Brazil from 1995 to 2003, and molecular characterization of *Neisseria meningitidis* using multilocus sequence typing. *Trop Med Int Health* 2008; 13: 31-40.
- 11 Rosenstein...
- ... al. Serum bactericidal activity correlates with the vaccine efficacy of outer membrane vesicle vaccines against *Neisseria meningitidis* serogroup B disease. *Vaccine* 2003; 21: 734-37.
- 18 Sierra GV, Campa HC, Varcacel NM, et al. Vaccine against group B *Neisseria meningitidis*: protection trial and mass vaccination results in Cuba. *NI PH Ann* 1991; 14: 195-207...
- ... Milagres LG, Ramos SR, Sacchi CT, et al. Immune response of Brazilian children to a *Neisseria meningitidis* serogroup B outer membrane protein vaccine: comparison with efficacy. *Infect Immun* 1994; 62: 4419-24.
- 20 Granoff DM, Welsch JA, Ram S. Binding of complement factor H (fH) to *Neisseria meningitidis* is specific for human fH and inhibits complement activation by rat and rabbit sera...
- ... J, Balmer P, et al. Seroprevalence of bactericidal and anti-outer membrane vesicle antibodies to *Neisseria meningitidis* group B in England. *Clin Vaccine Immunol* 2007; 14: 863-68.
- 22 Pollard AJ...
- ... Baltimore) 1984; 63: 243-73.
- 25 Pledsted JS, Granoff DM. Vaccine-induced opsonophagocytic immunity to *Neisseria meningitidis* group B. *Clin Vaccine Immunol* 2008; 15: 799-804.
- 26 Vermont CL, van Dijken...
- ... *Infect Immun* 2002; 70: 584-90.
- 27 Borrow R, Carlone GM, Rosenstein N, et al. *Neisseria meningitidis* group B correlates of protection and assay standardization-international meeting report Emory University, Atlanta... Martin D. MenZB: a safe and highly immunogenic tailor-made vaccine against the New Zealand *Neisseria meningitidis* serogroup B disease epidemic strain. *Vaccine* 2005; 23: 2191-96.
- 39 Oster P, O...
- ... MD, Dawson T, Morant A, et al. Immunogenicity and reactogenicity of a novel serogroup B *Neisseria meningitidis* vaccine administered from 6 months of age. 16th International Pathogenic *Neisseria* Conference 2008; Rotterdam, Netherlands; Sept 7-12, 2008. Abstract O69.
- 46 Nissen MD, Marshall HS...
- ... al. Phase I safety and immunogenicity study of a candidate meningococcal disease vaccine based on *Neisseria lactamica* outer membrane vesicles.



Clin Vaccine Immunol 2009; 16: 1113-20.

49 Haneberg B, Dal seg...

...53 Lifely MR, Roberts SC, Shepherd WM, et al. Immunogenicity in adult males of a *Neisseria meningitidis* group B vaccine composed of polysaccharide complexed with outer membrane proteins. Vaccine 1991; 9...

...Wang LY, Mocca LF, Tsai CM. Antibody response of adults to an aluminum hydroxide-adsorbed *Neisseria meningitidis* serotype 2b protein-group B polysaccharide vaccine. J Infect Dis 1988; 158: 710-18...

...Ashton FE. N-propionylated group B meningococcal polysaccharide mimics a unique epitope on group B *Neisseria meningitidis*. J Exp Med 1987; 165: 1207-11.

57 Frasch CE, Chapman SS. Classification of *Neisseria meningitidis* group B into distinct serotypes-3: application of a new bactericidal-inhibition technique to...

...Frasch CE, Peppler MS, Cate TR, Zahradnik JM. Immunogenicity and clinical evaluation of group B *Neisseria meningitidis* outer membrane protein vaccines. In: Robbins B, Hill JC, Sadoff JC, eds. Seminars in...

...Mandrell RE, Altieri P, Berman S, Lowenthal J, Artenstein MS. Safety and immunogenicity of a *Neisseria meningitidis* type 2 protein vaccine in animals and humans. J Infect Dis 1978; 137: 728...

...Release of endotoxin in the form of cell wall blebs during in vitro growth of *Neisseria meningitidis*. J Exp Med 1973; 138: 1156-67.

62 Frasch CE. Immunization against *Neisseria meningitidis*. In: Easman CSF, Jeljaszewicz J, eds. Medical microbiology. New York: Academic Press, 1983: 115...

...Wu L, Wang LY, Rosenqvist E. Immune response of adults and children to group B *Neisseria meningitidis* outer membrane protein vaccines. In: Robbins JB, ed. Bacterial vaccines. New York: Praeger Publications, ...al. Additive and synergistic bactericidal activity of antibodies directed against minor outer membrane proteins of *Neisseria meningitidis*. Infect Immun 2007; 75: 5434-42.

80 Zollinger WD, Donets M, Brandt BL, et...

...Outer Membrane Vesicles (OMV) has potential for providing safe, broadly protective immunity. 16th International Pathogenic *Neisseria* Conference 2008; Rotterdam, Netherlands; Sept 7-12, 2008. Abstract O35.

81 Koeberling O, Giuntini S...

...E, Hoi by EA, Rosenqvist E, Bjune G. Immune responses against major outer membrane antigens of *Neisseria meningitidis* in vaccinees and controls who contracted meningococcal disease during the Norwegian serogroup B protection...

...3: e23.

85 Tettelin H, Saunders NJ, Heidelberg J, et al. Complete genome sequence of *Neisseria meningitidis* serogroup B strain MC58. Science 2000; 287: 1809-15.

86 Pizza M, Scarlato V...

...2000; 287: 1816-20.

87 Masi gnani V, Comanducci M, Guliani MM, et al. Vaccination against *Neisseria meningitidis* using three variants of the lipoprotein GNA1870. J Exp Med 2003; 197: 789-99.

88 Fletcher LD, Bernfield L, Barniak V, et al. Vaccine potential of the *Neisseria meningitidis* 2086 lipoprotein. Infect Immun 2004; 72: 2088-100.

89 Barbini S, Muzzi A, Cien...

... of the factor H binding protein vaccine candidate in epidemiologically relevant strains of serogroup B *Neisseria meningitidis*. *J Infect Dis* 2009; 200: 379-89.

93 Madico G, Welsch JA, Lewis LA... Scarselli M et al. Solution structure of the immunodominant domain of protective antigen GNA1870 of *Neisseria meningitidis*. *J Biol Chem* 2006; 281: 7220-27.

98 Cantini F, Veggi D, Dragonetti S...  
... Solution structure of the factor H-binding protein, a survival factor and protective antigen of *Neisseria meningitidis*. *J Biol Chem* 2009; 284: 9022-26.

99 Mascioni A, Bentley BE, Camarda R...

... Santini L, Brunelli B, et al. The region comprising amino acids 100 to 255 of *Neisseria meningitidis* lipoprotein GNA 1870 elicits bactericidal antibodies. *Infect Immun* 2005; 73: 1151-60.

101 Scarselli...

... al. Epitope mapping of a bactericidal monoclonal antibody against the factor H binding protein of *Neisseria meningitidis*. *J Mol Biol* 2009; 386: 97-108.

102 Beernink PT, Granoff DM Bactericidal antibody...

... *Infect Immun* 2008; 76: 2568-75.

103 Schneider MC, Prosser BE, Caesar JJ, et al. *Neisseria meningitidis* recruits factor H using protein mimicry of host carbohydrates. *Nature* 2009; 458: 890-93.

104 Capecchi B, Adu-Bobie J, Di Marcello F, et al. *Neisseria meningitidis* NadA is a new invasin which promotes bacterial adhesion to and penetration into human...

... Franzoso S, Mazzon C, Sztukowska M et al. Human monocytes/macrophages are a target of *Neisseria meningitidis* Adhesin A (NadA). *J Leukoc Biol* 2008; 83: 1100-10.

106 Serruto D, Spadafina T, Giucchi L, et al. *Neisseria meningitidis* GNA2132 antigen is a target of meningococcus and host proteases: functional investigation of this dual processing. 16th International Pathogenic *Neisseria* Conference 2008; Rotterdam Netherlands; Sept 7-12, 2008. Abstract P190.

107 Lucidarme J, Comanducci M...

... *Microbiol* 2009; 47: 3577-85.

108 Martin D, Brodeur BR, Hamel J, et al. Candidate *Neisseria meningitidis* NspA vaccine. *J Biotechnol* 2000; 83: 27-31.

109 Rokbi B, Mgnon M, Maitre-Wilmotte G, et al. Evaluation of recombinant transferrin-binding protein B variants from *Neisseria meningitidis* for their ability to induce cross-reactive and bactericidal antibodies against a genetically diverse...

... strains. *Infect Immun* 1997; 65: 55-63.

110 Ala'Aldeen DA, Borriello SP. The meningococcal transferrin-binding proteins 1 and 2 are both surface exposed and generate bactericidal antibodies capable of...  
... 53.

111 Danve B, Lissolo L, Guinet F, et al. Safety and immunogenicity of a *Neisseria meningitidis* group B transferrin binding protein vaccine in adults. 11th International Pathogenic *Neisseria* Conference; Nice, France; Nov 1-6, 1998. Abstract p53.

112 Finney M, Vaughan T, Taylor...

... key antigenic components and pre-clinical immune responses to a meningococcal disease vaccine based on *Neisseria lactamica* outer membrane vesicles. *Hum Vaccin* 2008; 4: 23-30.

113 Pettersson A, Kortekaas J, Weynants VE, et al. Vaccine potential of

the *Neisseria meningitidis* lactoferrin-binding proteins LbpA and LbpB. *Vaccine* 2006; 24: 3545-57.

114 Weynants V, Denoel P, Devos N, et al. Genetically modified L3,7 and L2 lipooligosaccharides from *Neisseria meningitidis* serogroup B confer a broad cross-bactericidal response. *Infect Immun* 2009; 77: 2084-93

...

...al. Evaluation of recombinant Opa proteins as vaccine candidates against hyperinvasive meningococci. 16th International Pathogenic *Neisseria* Conference 2008; Rotterdam, Netherlands; Sept 7-12, 2008. Abstract O43.

117 Pajon R, Yero D...

...R-type oligosaccharides to tetanus toxoid as route to a potential vaccine against group B *Neisseria meningitidis*. *Infect Immun* 1984; 43: 407-12.

121 Cox AD, Zou W, Gidney MA, et...

...J, Eales-Reynolds LJ, Wootton L, et al. Infection with an avirulent phoP mutant of *Neisseria meningitidis* confers broad cross-reactive immunity. *Infect Immun* 2004; 72: 338-44.

123 Li Y, Sun YH, Ison C, Levine MM, Tang CM. Vaccination with attenuated *Neisseria meningitidis* strains protects against challenge with live meningococci. *Infect Immun* 2004; 72: 345-51.

124 pool of DNA vaccine candidates that confer protective immunity in mice against *Neisseria meningitidis* serogroup B. *Vaccine* 2007; 25: 5175-88.

125 Goldschneider I, Gotschlich EC, Artenstein MS...

...HJ, ten Hove J, Zomer B, van Alphen L. Modification of lipid A biosynthesis in *Neisseria meningitidis* lpxL mutants: influence on lipopolysaccharide structure, toxicity, and adjuvant activity. *Infect Immun* 2001; 69...

...activation of human and mouse Toll-like receptor 4 by the adjuvant candidate LpxL1 of *Neisseria meningitidis*. *Infect Immun* 2008; 76: 3801-07.

128 Campbell H, Borrow R, Salisbury D, Miller...

...Getsios D, Caro I, El-Hadi W, Caro JJ. Assessing the economics of vaccination for *Neisseria meningitidis* in industrialized nations: a review and recommendations for further research. *Int J Technol Assess...*  
THIS IS THE FULL-TEXT.

? S (((AUTOTRANSF? OR IRON) AND HSF) OR ((AUTOTRANSF? OR IRON) AND TRANSFERRIN))  
Processing

Processed 30 of 52 files ...  
Completed processing all files

59156 AUTOTRANSF?

3638860 IRON

11528 HSF

59156 AUTOTRANSF?

3638860 IRON

205291 TRANSFERRIN

S48 82684 (((AUTOTRANSF? OR IRON) AND HSF) OR ((AUTOTRANSF? OR IRON) AND TRANSFERRIN))

? S S48 AND NEISSERIA

82684 S48

158727 NEISSERIA

S49 1996 S48 AND NEISSERIA

? S S48 AND (HSF? AND TRANSFERRIN)

82684 S48

20687 HSF?

205291 TRANSFERRIN

S50 19 S48 AND (HSF? AND TRANSFERRIN)

? RD

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S51 6 RD (unique items)

? T S51/3, K/1-6

>>>KW C option is not available in file(s): 399

51/3, K/1 (Item 1 from file: 5)

DI ALOG(R) File 5: Biosis Previews(R)

(c) 2010 The Thomson Corporation. All rts. reserv.

19021320 BIOSIS NO.: 200600366715

Analysis of hemochromatosis gene mutations in the Sicilian population:

Implications for survival and longevity

AUTHOR: Balistreri C R; Candore G (Reprint); Almasio P; Di Marco V;  
Colonna-Romano G; Graxi A; Motta M; Piazza G; Malaguarnera M; Lio D;  
Caruso C

AUTHOR ADDRESS: Dept Biopathol and Biomed Methodol, Immunosenescence Study  
Unit, Corso Tukory 211, I-90134 Palermo, Italy\*\*Italy

AUTHOR E-MAIL ADDRESS: gcandore@unipa.it

JOURNAL: Archives of Gerontology and Geriatrics (Suppl. 8): p35-42 2002  
2002

ISSN: 0167-4943

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

...ABSTRACT: cleft. This protein, instead, has acquired the ability to form  
complex with the receptor for iron-binding transferrin, so by  
regulating iron uptake. The C282Y mutation in the HFE gene, known  
to increase iron uptake, has been identified as the main genetic  
basis of hereditary hemochromatosis (HH). Two more...

...in patients affected by chronic liver diseases (CLD, n = 92) or by high  
serum ferritin (HSF) values (n = 24) from Sicily. Samples were  
typed for C282Y, H63D and S65C alleles using...

...mutation. One was compound heterozygous C282Y/H63D; none was  
heterozygous for the S65C mutation. Among HSF patients, two were  
homozygous and two were heterozygous for the C282Y mutation, two were  
homozygous...

...REGISTRY NUMBERS: iron

DESCRIPTORS:

CHEMICALS & BIOCHEMICALS: iron; ...

...transferrin receptor

51/3, K/2 (Item 2 from file: 5)

DI ALOG(R) File 5: Biosis Previews(R)

(c) 2010 The Thomson Corporation. All rts. reserv.

16322819 BIOSIS NO.: 200100494658

Genetic analysis of virulence factors of Mannheimia (Pasteurella)  
haemolytica A1

AUTHOR: Lo Reggie Y C (Reprint)

AUTHOR ADDRESS: Department of Microbiology, University of Guelph, Guelph,  
ON, N1G 2W1, Canada\*\*Canada

JOURNAL: Veterinary Microbiology 83 (1): p23-35 22 October, 2001 2001

MEDIUM print

ISSN: 0378-1135

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

...ABSTRACT: antigens of *M. haemolytica* A1 have been identified. The first one is a TonB-dependent iron regulated outer-membrane receptor that is distinct from the transferrin binding proteins. The 84 kDa Irp protein exhibits features including a TonB box and a...

...protein as expected, demonstrating that they are functional genes. In addition to being regulated by iron and Fur, *irpMn* undergoes phase variation by a slipped-strand mispairing mechanism and may represent a contingency locus for iron acquisition during an infection. Another locus that codes for a putative adhesin molecule has also...

...weight adhesin proteins of non-piliated non-typable strains of *Haemophilus influenzae* (NTHi) including Hia, Hsf, HMM, HMM2. Currently, we have cloned the DNA that codes for 2223 amino acids (225...

...complete, the protein could be close to 240 kDa, similar to the molecular mass of Hsf. Though incomplete, analysis of the adhesin showed that it exhibits characteristics of autotransporter (AT) proteins. The role of this high-molecular-weight adhesin in infection is being investigated.

## DESCRPTORS:

CHEMICALS & BIOCHEMICALS: ... TonB-dependent iron regulated outer-membrane receptor...

...transferrin binding proteins

51/3, K/3 (Item 1 from file: 34)  
 DIALOG(R) File 34: Sci Search(R) Cited Ref Sci  
 (c) 2010 The Thomson Corp. All rights reserved.

16535859 Genuine Article#: 172ER No. References: 15  
 Title: Ionization rate and absolute intensity of peptides enhanced with matrix-assisted laser desorption/ionization in the presence of proteins  
 Author: Zhuo HQ; Huang HQ (REPRINT); Weng LN; Huang HY  
 Corporate Source: Xiamen Univ, Key Lab MOD Cell Biol & Tumor Cell Engn, Sch Life Sci, Xiamen 361005// Peoples R China/ (REPRINT); Xiamen Univ, Key Lab MOD Cell Biol & Tumor Cell Engn, Sch Life Sci, Xiamen 361005// Peoples R China/; Xiamen Univ, Key Lab Chem Biol Fujian Prov, Coll Chem & Chem Engn, Xiamen 361005// Peoples R China/  
 Journal: CHEMICAL JOURNAL OF CHINESE UNIVERSITIES-CHINESE, 2007, V28, N5 (MAY), P889-893  
 ISSN: 0251-0790 Publication Date: 20070500  
 Publisher: HIGHER EDUCATION PRESS, SHATANHOU ST 55, BEIJING 100009, PEOPLES R CHINA  
 Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

Abstract: Human serum transferrin (HTF), bovine serum albumin (BSA), and horse spleen ferritin (HSF) have capacities of assisting the matrix to enhance ionization rate and absolute intensity both in insulin ...  
 ...and structures. The fragment numbers of HTF lysed with endopeptidase and matching rate with reference transferrin were greatly improved, in the presence of SZLF, - apoSZLF and HSF, when HTF was identified by a combined techniques, lysis enzyme I and peptide mass fingerprinting...

...Identifiers: FLIGHT MASS-SPECTROMETRY; MALDI-TOF-MS; IRON RELEASE;

10523114HSFTBP.txt  
PROTEOM CS; FERRITIN; KINETICS

51/3, K/4 (Item 2 from file: 34)  
DIALOG(R) File 34: Sci Search(R) Cited Ref Sci  
(c) 2010 The Thomson Corp. All rights reserved.

04839326 Genuine Article#: UL650 No. References: 403  
Title: THE STRESS GENE RESPONSE IN BRAIN  
Author: MASSA SM; SWANSON RA; SHARP FR  
Corporate Source: VET AFFAIRS MED CTR, DEPT NEUROL 127, 4150 CLEMENT ST/ SAN  
FRANCISCO / CA 94121; UNIV CALIF SAN FRANCISCO, DEPT NEUROL/ SAN  
FRANCISCO / CA 94143  
Journal: CEREBROVASCULAR AND BRAIN METABOLISM REVIEWS, 1996, V8, N2 (SUM  
, P95-158  
ISSN: 1040-8827  
Language: ENGLISH Document Type: REVIEW (Abstract Available)

... Research Fronts: BRAIN INJURY; RAT FOCAL ISCHEMIA; GLUTAMATE  
NEUROTOXICITY)

94-0806 001 (HEAT-SHOCK TRANSCRIPTION FACTOR; CONSTITUTIVE HSF2  
DNA-BINDING ACTIVITY IN MOUSE EMBRYONAL CARCINOMA-CELLS; CYTOSOLIC  
HSP70 GENE FAMILY)  
94-1531 001...

... INHIBITS P34(CDC2) KINASE; MOUSE OOCYTES; UBIQUITIN-MEDIATED PROTEOLYTIC  
PATHWAY; CDC2 ACTIVATION)

94-7136 001 (IRON-RESPONSIVE ELEMENT-BINDING PROTEIN;  
POSTTRANSCRIPTIONAL REGULATION; 3' UNTRANSLATED REGION;  
TRANSFERRIN RECEPTOR GENE-EXPRESSION)

51/3, K/5 (Item 1 from file: 357)  
DIALOG(R) File 357: Derwent Biotech Res.  
(c) 2010 Thomson Reuters. All rights reserved.

0337155 DBR Accession No.: 2004-09447 PATENT  
New immunogenic composition comprising transferrin binding protein  
and Hsf like protein, useful for treating or preventing disease  
caused by *Neisseria meningitidis* or *N. gonorrhoeae*, *Braxella*  
*catarrhalis* or *Haemophilus influenzae* - immunogenic composition for use  
in bacterium infection therapy and vaccine  
AUTHOR: BERTHET F J; BIEMANS R; DENOEL P; FERON C; GORAJ C; POOLMAN J;  
WEYNANTS V  
PATENT ASSIGNEE: GLAXOSMITHKLINE BIOLOGICALS SA 2004  
PATENT NUMBER: WO 200414419 PATENT DATE: 20040219 WPI ACCESSION NO.:  
2004-169460 (200416)  
PRIORITY APPLIC. NO.: GB 20035028 APPLIC. DATE: 20030305  
NATIONAL APPLIC. NO.: WO 2003EP8567 APPLIC. DATE: 20030731  
LANGUAGE: English

New immunogenic composition comprising transferrin binding protein  
and Hsf like protein, useful for treating or preventing disease  
caused by *Neisseria meningitidis* or *N. gonorrhoeae*...  
ABSTRACT: DERWENT ABSTRACT: NOVELTY - A new immunogenic composition  
comprises an isolated transferrin binding protein (Tbp) or its  
antigenic fragment and an isolated Hsf like protein or its  
antigenic from the same or different Gram negative bacteria. DETAILED  
DESCRIPTION...

... or preventing *Neisseria* infection; and (7) a pharmaceutical preparation  
comprising monoclonal antibodies against TbpA and Hsf of  
*Neisseria meningitidis* and an excipient. BIOTECHNOLOGY - Preferred

Composition: The immunogenic composition comprises high molecular...

- ... TbpA and low molecular weight form TbpA. It comprises antigenic fragments of Tbp and/or Hsf like protein capable of generating a protective response against *Neisseria meningitidis* serogroup B, *Neisseria gonorrhoeae*, *Moraxella catarrhalis* or *Haemophilus influenzae* infection. It comprises antigenic fragments of TbpA and/or Hsf. It comprises a fusion protein of Tbp and Hsf like protein or TbpA and Hsf capable of generating a protective response against *Neisseria* infection. The Hsf like protein or transferrin binding protein is derived from *Neisseria meningitidis* serogroup B, *Neisseria gonorrhoeae*, *Moraxella catarrhalis* or *Haemophilus influenzae*. The transferrin binding protein is TbpA. The immunogenic composition comprises an outer membrane vesicle preparation derived from Gram negative bacteria, in which expression of both transferrin binding protein and Hsf like protein are at least 1.5 fold higher than naturally occurring in the unmodified Gram negative bacteria. The expression of transferrin binding protein is upregulated by growth under iron limitation conditions. At least a part of the outer membrane vesicle preparation is derived from *Neisseria meningitidis* serogroup B, *Neisseria gonorrhoeae*, *Moraxella catarrhalis* or *Haemophilus influenzae*. The transferrin binding protein and Hsf like protein are upregulated on different vesicles originating from different bacterial strains or on the...
  - ... been genetically engineered so as to introduce a stronger promoter sequence upstream of genes encoding transferrin binding protein and Hsf like protein. A host cell from which the outer membrane vesicle preparation is derived has...
  - ... polysaccharide or oligosaccharide. It comprises two or more bacterial capsular polysaccharides or oligosaccharides conjugated to transferrin binding protein or Hsf like proteins or both. The capsular polysaccharide or oligosaccharide is derived from *Neisseria meningitidis* serogroup...
  - ... *catarrhalis* or *Haemophilus influenzae*. The immunogenic composition also comprises one or more polynucleotides encoding a transferrin binding protein and a Hsf like protein whose expression is driven by a eukaryotic promoter. It further comprises an adjuvant containing CpG. It also comprises aluminium salts or 3D-MPL. The TbpA and Hsf of *Neisseria meningitidis* are encoded. Preferred Method: Treating or preventing Gram-negative bacterial disease comprises...
  - ... *Neisseria* infection is prevented or treated. Making the immunogenic composition comprises: (1) mixing together isolated transferrin binding protein and isolated Hsf like protein; (2) isolating outer membrane vesicles from a Gram negative bacterial culture, which involves...
  - ... preferably 0.1% detergent, preferably DCC; and (3) conjugating bacterial capsular polysaccharides or oligosaccharides to transferrin binding protein and/or Hsf like protein. Making the vaccine comprises combining the immunogenic composition with an excipient. Preparing an...
- DESCRIPTORS: immunogenic composition, transferrin binding protein isol., Hsf-like protein, fusion protein, genetically engineered bacterium outer membrane vesicle, monoclonal antibody, appl. *Neisseria meningitidis*...

0000162978

\*\*USE FORMAT 7 OR 9 FOR FULL TEXT\*\*

Serogroup B meningococcal vaccines-an unfinished story  
 Sadarangani, Manish; Pollard, Andrew J  
 The Lancet Infectious Diseases vol. 10, 2 PP: 112-24 Feb 2010  
 DOCUMENT TYPE: PERIODICAL; General Information; Journal Article  
 LANGUAGE: English RECORD TYPE: New; Fulltext  
 LENGTH: 13 Pages  
 WORD COUNT: 10053

## TEXT:

...vesicle vaccines. Outer membrane vesicles without PorA and with overexpression of the conserved proteins TbpA, Hsf, NspA, or Omp85 only induced a serum bactericidal antibody response in mice when combined. 79...antibodies in human beings after promising mouse studies and is not being pursued. 47, 108 Transferrin-binding proteins elicited serum bactericidal antibody in mice and rabbits, 109, 110 and there have...

...addition to those involving fHbp (table 2). 77, 79-81, 102, 109, 110, 112-124 Iron-regulated proteins (eg, FetA, LbpA, and LbpB) are upregulated in conditions where the concentration of iron is low, so the amount present in outer membrane vesicle vaccines is dependent on growth...

## SI DEBAR:

## CITED REFERENCES:

...27-31.  
 109 Rokbi B, Mignon M, Maitre-Wilmotte G, et al. Evaluation of recombinant transferrin-binding protein B variants from *Neisseria meningitidis* for their ability to induce cross-reactive and...

...strains. Infect Immun 1997; 65: 55-63.

110 Ala'Aldeen DA, Borriello SP. The meningococcal transferrin-binding proteins 1 and 2 are both surface exposed and generate bactericidal antibodies capable of...

...Lissolo L, Guinet F, et al. Safety and immunogenicity of a *Neisseria meningitidis* group B transferrin binding protein vaccine in adults. 11th International Pathogenic *Neisseria* Conference; Nice, France; Nov 1-6

THIS IS THE FULL-TEXT.

?

? DS

S24	201	E1-E12
S25	6	S24 AND (TRANSFERRIN OR HSF OR NEISSERIA)
S26	5	RD (unique items)
S27	4	E1-E12 AND (HSF OR TRANSFERRIN)
S28	4	RD (unique items)
S29	117	E1-E12
S30	7	S29 AND (HSF OR TRANSFERRIN)
S31	7	RD (unique items)
S32	9	E1-E12 AND (HSF OR TRANSFERRIN)
S33	8	RD (unique items)
S34	32	E1-E12
S35	1	S34 AND (HSF OR TRANSFERRIN)
S36	104	E1-E7 AND (HSF OR TRANSFERRIN OR NEISSERIA)
S37	88	RD (unique items)
S38	69	E1-E5
S39	37	S38 AND (HSF OR TRANSFERRIN OR NEISSERIA)
S40	17	RD (unique items)
S41	190	E1-E12
S42	16	S41 AND (HSF OR TRANSFERRIN OR NEISSERIA)



10523114HSFTBP.txt

S43	15	RD (unique items)
S44	216790	( TRANSFERRIN OR HSF)
S45	2683	S44 AND ( NEISSERIA)
S46	871	S45 AND ( TRANSFERRIN( WBI NDING( W( PROTEIN)
S47	3	S46 AND HSF
S48	82684	(( ( AUTOTRANSF? OR I RON) AND HSF) OR (( AUTOTRANSF? OR I RON) - AND TRANSFERRIN)
S49	1996	S48 AND NEISSERIA
S50	19	S48 AND ( HSF? AND TRANSFERRIN)
S51	6	RD (unique items)